



ISSPRO

Standard
PRODUCT CATALOG

GAUGES
&
SENSORS

for
VEHICULAR
INDUSTRIAL
& MARINE
APPLICATIONS

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EV² Enhanced Visibility Instrumentation

2-1/16" diameter gauges

Snap fit into standard gauge pillars

Stepper motor movements

270° pointer sweep

LED lighting adjusted by vehicle dimmer control

User Adjustable Warning lights*

Solid state high quality senders



Temperature compensated pyrometers

Matching 3 3/8" tachometers and speedometers available

OEM match for popular models
(see ISSPRO Performance Catalog for complete offering)

For 12 or 24 Volt applications

Frontally sealed for harsh environments

Two gauges can be used with a single sender in
multiple operator station applications.
Consult factory for details.

Kit contains all items needed for typical installation

Optional output driver to control external devices

*With programmer R82003

EV² PRESSURE GAUGES

AIR PRESSURE

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-175 PSI | Black | White | R11266 |
| 0-175 PSI | Black | Red | R12266 |
| 0-175 PSI | Chrome | Blue | R13266 |

AXLE LOAD

| Scale | Bezel | Pointer | Part No. |
|------------------|-------|---------|----------|
| 5,000-55,000 LBS | Black | White | R11820 |
| 5,000-55,000 LBS | Black | Red | R12820 |

BRAKE APPLICATION

| Scale | Bezel | Pointer | Part No. |
|-----------|-------|---------|----------|
| 0-160 PSI | Black | White | R11830 |
| 0-160 PSI | Black | Red | R12830 |

COOLANT PRESSURE

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-40 PSI | Black | White | R11240 |
| 0-40 PSI | Black | Red | R12240 |
| 0-40 PSI | Chrome | Blue | R13240 |
| 0-100 PSI | Black | White | R11241 |
| 0-100 PSI | Black | Red | R12241 |
| 0-100 PSI | Chrome | Blue | R13241 |

DRIVE OIL PRESSURE

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-400 PSI | Black | White | R11088 |
| 0-400 PSI | Black | Red | R12088 |
| 0-400 PSI | Chrome | Blue | R13088 |

See Accessories for options.

EV² PRESSURE GAUGES

TURBO BOOST

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-30 PSI | Black | White | R11133 |
| 0-30 PSI | Black | Red | R12133 |
| 0-30 PSI | Chrome | Blue | R13133 |
| 0-40 PSI | Black | White | R11333 |
| 0-40 PSI | Black | Red | R12333 |
| 0-40 PSI | Chrome | Blue | R13333 |
| 0-60 PSI | Black | White | R11233 |
| 0-60 PSI | Black | Red | R12233 |
| 0-60 PSI | Chrome | Blue | R13233 |
| 0-100 PSI | Black | White | R11433 |
| 0-100 PSI | Black | Red | R12433 |
| 0-100 PSI | Chrome | Blue | R13433 |
| 0-120 PSI | Black | White | R11633 |
| 0-120 PSI | Black | Red | R12633 |
| 0-120 PSI | Chrome | Blue | R13633 |
| 0-150 PSI | Black | White | R11733 |
| 0-150 PSI | Black | Red | R12733 |
| 0-150 PSI | Chrome | Blue | R13733 |



See Accessories for options.

EV2 PRESSURE GAUGES

TURBO BOOST 2

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-40 PSI | Black | White | R11377 |
| 0-40 PSI | Black | Red | R12377 |
| 0-40 PSI | Chrome | Blue | R13377 |
| 0-60 PSI | Black | White | R11277 |
| 0-60 PSI | Black | Red | R12277 |
| 0-60 PSI | Chrome | Blue | R13277 |
| 0-100 PSI | Black | White | R11477 |
| 0-100 PSI | Black | Red | R12477 |
| 0-100 PSI | Chrome | Blue | R13477 |

EXHAUST BACK PRESSURE

| Scale | Bezel | Pointer | Part No. |
|----------|--------|---------|----------|
| 0-40 PSI | Black | White | R11100 |
| 0-40 PSI | Black | Red | R12100 |
| 0-40 PSI | Chrome | Blue | R13100 |
| 0-60 PSI | Black | White | R11122 |
| 0-60 PSI | Black | Red | R12122 |
| 0-60 PSI | Chrome | Blue | R13122 |

EV2

EV² PRESSURE GAUGES

Continued ... EXHAUST BACK PRESSURE

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-100 PSI | Black | White | R11155 |
| 0-100 PSI | Black | Red | R12155 |
| 0-100 PSI | Chrome | Blue | R13155 |
| 0-120 PSI | Black | White | R11144 |
| 0-120 PSI | Black | Red | R12144 |
| 0-120 PSI | Chrome | Blue | R13144 |
| 0-150 PSI | Black | White | R11166 |
| 0-150 PSI | Black | Red | R12166 |
| 0-150 PSI | Chrome | Blue | R13166 |

FUEL RAIL PRESSURE(1800 BAR)

Dodge/Cummins '03 - '07 • 5.9L & GM/Duramax '01 - '05 (LB7 & Early LLY)

| Scale | Bezel | Pointer | Part No. |
|--------------|--------|---------|----------|
| 0-30,000 PSI | Black | White | R11288 |
| 0-30,000 PSI | Black | Red | R12288 |
| 0-30,000 PSI | Chrome | Blue | R13288 |

FUEL RAIL PRESSURE (2000 BAR)

Dodge/Cummins '07.5 - Early 2013 6.7L & GM/Duramax '06 - '10(late LLY, LBZ & LMM)

| Scale | Bezel | Pointer | Part No. |
|--------------|--------|---------|----------|
| 0-30,000 PSI | Black | White | R11289 |
| 0-30,000 PSI | Black | Red | R12289 |
| 0-30,000 PSI | Chrome | Blue | R13289 |

See Accessories for options.



EV² PRESSURE GAUGES

FUEL PRESSURE

| | Scale | Bezel | Pointer | Part No. |
|---|-----------|--------|---------|----------|
|  | 0-20 PSI | Black | White | R11066 |
|  | 0-20 PSI | Black | Red | R12066 |
|  | 0-20 PSI | Chrome | Blue | R13066 |
|  | 0-30 PSI | Black | White | R11033 |
|  | 0-30 PSI | Black | Red | R12033 |
|  | 0-30 PSI | Chrome | Blue | R13033 |
|  | 0-40 PSI | Black | White | R11055 |
|  | 0-40 PSI | Black | Red | R12055 |
|  | 0-40 PSI | Chrome | Blue | R13055 |
|  | 0-60 PSI | Black | White | R11077 |
|  | 0-60 PSI | Black | Red | R12077 |
|  | 0-60 PSI | Chrome | Blue | R13077 |
|  | 0-100 PSI | Black | White | R11044 |
|  | 0-100 PSI | Black | Red | R12044 |
|  | 0-100 PSI | Chrome | Blue | R13044 |
|  | 0-150 PSI | Black | White | R11011 |
|  | 0-150 PSI | Black | Red | R12011 |
|  | 0-150 PSI | Chrome | Blue | R13011 |

EV2 PRESSURE GAUGES

HPOP PRESSURE

| Scale | Bezel | Pointer | Part No. |
|------------|--------|---------|----------|
| 0-4000 PSI | Black | White | R11255 |
| 0-4000 PSI | Black | Red | R12255 |
| 0-4000 PSI | Chrome | Blue | R13255 |

OIL PRESSURE

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-100 PSI | Black | White | R11211 |
| 0-100 PSI | Black | Red | R12211 |
| 0-100 PSI | Chrome | Blue | R13211 |

RESERVOIR PRESSURE (PRI)

| Scale | Bezel | Pointer | Part No. |
|-----------|-------|---------|----------|
| 0-160 PSI | Black | White | R11846 |
| 0-160 PSI | Black | Red | R12846 |

RESERVOIR PRESSURE (SEC)

| Scale | Bezel | Pointer | Part No. |
|-----------|-------|---------|----------|
| 0-160 PSI | Black | White | R11847 |
| 0-160 PSI | Black | Red | R12847 |

TRANSMISSION OIL PRESSURE

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-180 PSI | Black | White | R11244 |
| 0-180 PSI | Black | Red | R12244 |
| 0-180 PSI | Chrome | Blue | R13244 |



EV2

EV² TEMPERATURE GAUGES

AIR TEMPERATURE




| Scale | Bezel | Pointer | Part No. |
|----------|--------|---------|----------|
| 0-240° F | Black | White | R11222 |
| 0-240° F | Black | Red | R12222 |
| 0-240° F | Chrome | Blue | R13222 |

COOLANT TEMPERATURE



| Scale | Bezel | Pointer | Part No. |
|------------|--------|---------|----------|
| 0-240° F | Black | White | R11514 |
| 0-240° F | Black | Red | R12514 |
| 100-280° F | Black | White | R11588 |
| 100-280° F | Black | Red | R12588 |
| 100-280° F | Chrome | Blue | R13588 |
| 140-320° | Black | White | R11577 |
| 140-320° | Black | Red | R12577 |
| 140-320° | Chrome | Blue | R13577 |

FRONT AXLE TEMPERATURE



| Scale | Bezel | Pointer | Part No. |
|------------|--------|---------|----------|
| 100-280° F | Black | White | R11522 |
| 100-280° F | Black | Red | R12522 |
| 100-280° F | Chrome | Blue | R13522 |

FUEL TEMPERATURE



| Scale | Bezel | Pointer | Part No. |
|----------|-------|---------|----------|
| 0-240° F | Black | White | R11504 |
| 0-240° F | Black | Red | R12504 |

HYDRAULIC OIL TEMPERATURE



| Scale | Bezel | Pointer | Part No. |
|----------|-------|---------|----------|
| 0-320° F | Black | White | R11848 |
| 0-320° F | Black | Red | R12848 |

EV² TEMPERATURE GAUGES

OIL TEMPERATURE

| Scale | Bezel | Pointer | Part No. |
|------------|--------|---------|----------|
| 0-240° F | Black | White | R11524 |
| 0-240° F | Black | Red | R12524 |
| 100-280° F | Black | White | R11533 |
| 100-280° F | Black | Red | R12533 |
| 100-280° F | Chrome | Blue | R13533 |
| 140-230° F | Black | White | R11544 |
| 140-230° F | Black | Red | R12544 |
| 140-230° F | Chrome | Blue | R13544 |



REAR AXLE TEMPERATURE

| Scale | Bezel | Pointer | Part No. |
|------------|--------|---------|----------|
| 100-280° F | Black | White | R11511 |
| 100-280° F | Chrome | Blue | R13511 |



TRANSMISSION OIL TEMPERATURE

| Scale | Bezel | Pointer | Part No. |
|------------|--------|---------|----------|
| 0-240° F | Black | White | R11534 |
| 0-240° F | Black | Red | R12534 |
| 140-320° F | Black | White | R11566 |
| 140-320° F | Black | Red | R12566 |
| 140-320° F | Chrome | Blue | R13566 |
| 100-280° F | Black | White | R11599 |
| 100-280° F | Black | Red | R12599 |
| 100-280° F | Chrome | Blue | R13599 |



EV²



EV² ^{2 1/16"} PYROMETERS



| Scale | Dial Features | Bezel | Pointer | Part No. |
|-----------|--------------------------|--------|---------|----------|
| 0-1600° F | Color Band | Black | White | R11021 |
| 0-1600° F | Color Band | Black | Red | R12021 |
| 0-1600° F | Color Band | Chrome | Blue | R13021 |
| 0-1600° F | | Black | White | R11022 |
| 0-1600° F | | Black | Red | R12022 |
| 0-1600° F | | Chrome | Blue | R13022 |
| 0-2000° F | Color Band | Black | White | R11031 |
| 0-2000° F | Color Band | Black | Red | R12031 |
| 0-2000° F | Color Band | Chrome | Blue | R13031 |
| 0-2000° F | | Black | White | R11032 |
| 0-2000° F | | Black | Red | R12032 |
| 0-2000° F | | Chrome | Blue | R13032 |
| 0-1600° F | Pyrometer 2 & Color Band | Black | White | R11092 |
| 0-1600° F | Pyrometer 2 & Color Band | Black | Red | R12092 |
| 0-1600° F | Pyrometer 2 & Color Band | Chrome | Blue | R13092 |
| 0-1600° F | Pyrometer 2 | Black | White | R11091 |
| 0-1600° F | Pyrometer 2 | Black | Red | R12091 |
| 0-1600° F | Pyrometer 2 | Chrome | Blue | R13091 |

EV2

Gauge purchase includes all items needed for a typical installation.

EV² 2 1/16" FUEL LEVEL GAUGES

| Resistance Curve (E-F) | Bezel | Pointer | Part No. |
|-------------------------|--------|---------|----------|
| SW Curve (240 - 33 Ohm) | Black | White | R11900 |
| SW Curve (240 - 33 Ohm) | Black | Red | R12900 |
| SW Curve (240 - 33 Ohm) | Chrome | Blue | R13900 |
| AC Curve (0-90 Ohm) | Black | White | R11901 |
| AC Curve (0-90 Ohm) | Black | Red | R12901 |
| AC Curve (0-90 Ohms) | Chrome | Blue | R13901 |



EV² 2 1/16" VOLTMETERS

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 8-16 VDC | Black | White | R11600 |
| 8-16 VDC | Black | Red | R12600 |
| 8-16 VDC | Chrome | Blue | R13600 |
| 10-24 VDC | Black | White | R11601 |
| 10-24 VDC | Black | Red | R12601 |
| 10-24 VDC | Chrome | Blue | R13601 |
| 16-32 VDC | Black | White | R11602 |
| 16-32 VDC | Black | Red | R12602 |
| 16-32 VDC | Chrome | Blue | R13602 |



EV² 3 3/8" SPEEDOMETERS

| Scale | Bezel | Pointer | Part No. |
|-----------|--------|---------|----------|
| 0-80 MPH | Black | White | R11701 |
| 0-80 MPH | Black | Red | R12701 |
| 0-80 MPH | Chrome | Blue | R13701 |
| 0-120 MPH | Black | White | R11700 |
| 0-120 MPH | Black | Red | R12700 |
| 0-120 MPH | Chrome | Blue | R13700 |



Gauge purchase includes all items needed for a typical installation.

EV2 PROGRAMMABLE TACHOMETERS 3 3/8"

Series 11000

- BLACK FACE
- BLACK BEZEL
- WHITE LETTERING
- WHITE POINTER



12000

- BLACK FACE
- BLACK BEZEL
- WHITE LETTERING
- RED POINTER



| | Range | Peak Value Recall* | Shift Light | Part No. | Part No. |
|-------------|---------|--------------------|-------------|----------|----------|
| Ignition | 0-6000 | YES | Standard | R11801 | R12801 |
| | 0-6000 | YES | Bright | R11802 | R12802 |
| | 0-6000 | NO | Standard | R11805 | R12805 |
| | 0-10000 | YES | Standard | R11807 | R12807 |
| | 0-10000 | YES | Bright | R11808 | R12808 |
| | 0-3000 | YES | Standard | R11811 | R12811 |
| | 0-3000 | YES | Bright | R11812 | R12812 |
| | 0-3000 | NO | Standard | R11815 | R12815 |
| | 0-4000 | YES | Standard | R11817 | R12817 |
| | 0-4000 | YES | Bright | R11818 | R12818 |
| Sensor | 0-6000 | YES | Standard | R11821 | R12821 |
| | 0-6000 | YES | Bright | R11822 | R12822 |
| | 0-6000 | NO | Standard | R11825 | R12825 |
| | 0-10000 | YES | Standard | R11827 | R12827 |
| | 0-10000 | YES | Bright | R11828 | R12828 |
| | 0-3000 | YES | Standard | R11831 | R12831 |
| | 0-3000 | YES | Bright | R11832 | R12832 |
| | 0-3000 | NO | Standard | R11835 | R12835 |
| | 0-4000 | YES | Standard | R11837 | R12837 |
| | 0-4000 | YES | Bright | R11838 | R12838 |
| Hall Effect | 0-6000 | YES | Standard | R11841 | R12841 |
| | 0-6000 | YES | Bright | R11842 | R12842 |
| | 0-6000 | NO | Standard | R11845 | R12845 |

Series 13000

- WHITE FACE
- CHROME BEZEL
- BLUE LETTERING
- BLUE POINTER



| | Range | Peak Value Recall* | Shift Light | Part No. |
|-------------|---------|--------------------|-------------|----------|
| Ignition | 0-6000 | YES | Standard | R13801 |
| | 0-6000 | YES | Bright | R13802 |
| | 0-6000 | NO | Standard | R13805 |
| | 0-10000 | YES | Standard | R13807 |
| | 0-10000 | YES | Bright | R13808 |
| | 0-3000 | YES | Standard | R13811 |
| | 0-3000 | YES | Bright | R13812 |
| | 0-3000 | NO | Standard | R13815 |
| | 0-4000 | YES | Standard | R13817 |
| | 0-4000 | YES | Bright | R13818 |
| Sensor | 0-6000 | YES | Standard | R13821 |
| | 0-6000 | YES | Bright | R13822 |
| | 0-6000 | NO | Standard | R13825 |
| | 0-10000 | YES | Standard | R13827 |
| | 0-10000 | YES | Bright | R13828 |
| | 0-3000 | YES | Standard | R13831 |
| | 0-3000 | YES | Bright | R13832 |
| | 0-3000 | NO | Standard | R13835 |
| | 0-4000 | YES | Standard | R13837 |
| | 0-4000 | YES | Bright | R13838 |
| Hall Effect | 0-6000 | YES | Standard | R13841 |
| | 0-6000 | YES | Bright | R13842 |
| | 0-6000 | NO | Standard | R13845 |

* Units without peak recall are frontally sealed.

R82006 ISSPRO Programmable Output Driver

The R82006 Programmable Output Driver allows you to control an external device using any ISSPRO EV² gauge. It functions as an electronic switch gauge.

The module simply mounts to the back of the gauge and features an output which can switch up to 10 amps on or off at a programmable set point, independent of the gauge's programmable warning light.

The module could be used to switch on an electric cooling fan when coolant temperature exceeds a specific amount, or shut down your engine/turn on a buzzer if oil pressure drops below a set level.

The modules may be wired in series, to combine functions (e.g., turn on water injection if boost and EGTs simultaneously exceed set levels).

The functionality is selected using the same R82003 Attribute Programming Tool that is used to set the warning light levels on ISSPRO EV² gauges.



R82004 Clipsense™ Temperature Sensor Mount

The R82004 Clipsense™ sensor mount is used to quickly secure a temperature sensor to a rigid metallic cooler tube with an outside diameter of 5/16", 3/8", 1/2", or 5/8".

It yields measurements within 5° F of a sensor immersed in the fluid but eliminates the need for cutting the cooling line and creating a potential future leak site.



Did you know?

ISSPRO designs custom products to meet a broad spectrum of challenges. Our team of multi-disciplinary electrical, mechanical, test, and software engineers work directly with customers to produce cutting-edge products to the highest standards. ISSPRO is TS 16949 and ISO 9001 certified.



EV² ACCESSORIES Continued

Miscellaneous Part No.

| | |
|---|----------|
| Needle Valve | R7742 |
| Piston Based Snubber <small>Restricts flow to dampen pulsations. Comes with 3 pistons for different rates of dampening</small> | R7798 |
| Orifice Based Snubber <small>Restricts flow to dampen pulsations</small> | R7800 |
| Pressure Sensor Wire Harness (Included w/Gauge) | R72014 |
| Rail Pressure Sensor Wire Harness (Included w/Gauge) <small>(Not applicable to Ford)</small> | R72015 |
| HPOP Wire Harness (Included w/Gauge) | R72016 |
| Temperature Sensor Wire Harness (Included w/Gauge) | R72017 |
| Temperature Sensor 0-320 °F | R89966 |
| Pyrometer Wire Harness (Included w/Gauge) | R72018 |
| Rear Axle Temperature Sensor Wire Harness (20') <small>(Included w/Gauge)</small> | R72021 |
| Lighting Wire Harness w/Potentiometer | R72022 |
| Wire Insertion Tool (Included w/Gauge) | R72023 |
| Hose, Braided SS 1/8" ID • 1/4" OD • M-FM • 1/8" NPT • 3' | R78824-3 |
| Hose, Braided SS 1/8" ID • 1/4" OD • M-FM • 1/8" NPT • 6' | R78824-6 |
| Hose, Braided SS 1/8" ID • 1/4" OD • M-FM • 1/8" NPT • 8' | R78824-8 |
| Exhaust Back Pressure Installation Kit | R78855 |
| Adapter Fitting 1/4" to 1/8" | R78844 |
| Adapter Fitting 3/8" to 1/8" | R78877 |
| Adapter Fitting 1/2" to 1/8" | R78888 |
| EV ² Gauge Mounting Bracket Kit | R19999 |
| Boost Bolt | R7741 |
| Attribute Programming Tool* | R82003 |
| Fuse Kit | R78823 |
| Pressure Sensor 100 PSI | R89141 |
| Pressure Sensor 400 PSI | R89140 |
| Pressure Sensor 175 PSI | R89142 |
| Pressure Sensor 2000 PSI | R89146 |
| Fuel Pressure Sensor 100 PSI (PREMIUM) | R89145 |
| Banjo Bolt | R7743 |
| Adapter Fitting for Ford 6.0L (fuel pressure) | R7962 |



* Activates and sets levels for warning lights and programmable output driver. (Gauge serial # must exceed C91)

Classic INSTRUMENTATION

Glass Filled Nylon Cases To Resist Vibration And Corrosion

Scratch Resistant, Water Resistant Glass Lenses

12/24 VDC NG Operation.

For 24 VDC NG applications, a 24 VDC bulb must be purchased separately.

Perimeter Lighting

Consult Factory For Positive Ground Applications

Non-illuminated Pointers



CLASSIC

Classic PYROMETERS

FOR USE WITH TYPE K THERMOCOUPLES



| Diameter | Scale | Sweep | Bezel | Special Features | Part No. |
|-----------------|---------------------------|-------|--------|--|----------|
| 2 1/16" | 0-1200° F 0-650° C | 250° | Black | | R611 |
| 2 1/16" | 0-1500° F | 250° | Black | | R607G |
| 2 1/16" | 0-1500° F | 250° | Black | Pre-turbo Color Coded Dial | R607T |
| 2 1/16" | 0-1500° F | 250° | Black | Post-turbo Color Coded Dial | R607 VW |
| 2 1/16" | 300-1500° F 200-800° C | 100° | Black | | R605 |
| 2 1/16" 52mm | 200-800° C | 100° | Black | | R605C |
| 2 1/16" | 300-1500° F 200-800° C | 100° | Chrome | | R605P |
| 2 1/16" | 0-1800° F 0-1000° C | 250° | Black | | R607 |
| 2 1/16" 52mm | 0-1000° C | 250° | Black | | R607C |
| 2 1/16" | 0-1800° F 0-1000° C | 250° | Chrome | | R607P |
| 2 1/16" | 0-1800° F | 250° | Black | Dial says "TURBO TEMP" | R607TT |
| 2 3/4" | 0-1800° F 0-1000° C | 100° | Black | 3 Hole Screw Mount | R602 |
| 2 3/4" | 0-1800° F | 100° | Black | 3 Hole Screw Mount Color Coded Dial | R602I |

CLASSIC

Classic PYROMETERS

FOR USE WITH TYPE K THERMOCOUPLES

| Diameter | Scale | Sweep | Bezel | Special Features | Part No. |
|------------|------------------------|-------|--------------|------------------|----------|
| 3" | 0-1200° F 0-650° C | 250° | Black | | R610 |
| 3" | 0-1800° F 0-1000° C | 100° | Black | | R604 |
| 3" 76mm | 0-1000° C | 100° | Black | | R604C |
| 3" | 0-1800° F | 100° | Satin Chrome | Color Coded Dial | R604I |
| 3" 76mm | 0-1000° C | 100° | Black | Color Coded Dial | R604IC |
| 3" | 0-1800° F 0-1000° C | 100° | Chrome | | R604P |
| 3" | 0-1800° F 0-1000° C | 250° | Black | | R606 |
| 3" 76mm | 0-1000° C | 250° | Black | | R606C |
| 3" | 0-1800° F 0-1000° C | 250° | Chrome | | R606P |



CLASSIC

DIGITAL PYROMETERS (FOR USE WITH TYPE K THERMOCOUPLES)

| Diameter | Scale | Bezel | Part No. |
|----------|-----------|--------|-----------------|
| 2 1/16" | 0-2100° F | Black | R630-12/24VDC |
| 2 1/16" | 0-2100° F | Chrome | R630P-12/24 VDC |

LED display is 0.3". Consult factory for alarm output settings.



Classic THERMOCOUPLES & ACCESSORIES

TYPE K THERMOCOUPLES For High Temperature Applications

| Scale | Fittings | Mounting | Probe Length | Plug | Part No. |
|---------|----------|----------|------------------|------|-------------|
| 0-1600° | Brass | 1/4" NPT | 1.6" | NO | R650S |
| 0-1600° | Brass | 1/4" NPT | 1.6" | YES | R650SPL |
| 0-1600° | Brass | 1/4" NPT | 1.6" Adjustable | NO | R658S |
| 0-1600° | Brass | 1/4" NPT | 1.6" Adjustable | NO | R658S8F |
| 0-1600° | Brass | 1/4" NPT | 1.6" Adjustable | YES | R658SPL |
| 0-1600° | Brass | 1/4" NPT | 2.25" | NO | R650 |
| 0-1600° | Brass | 1/4" NPT | 2.25" | YES | R650PL |
| 0-1600° | Brass | 1/4" NPT | 2.25" Adjustable | NO | R658 |
| 0-1600° | Brass | 1/4" NPT | 2.25" Adjustable | YES | R658PL |
| 0-2000° | Steel | 1/8" NPT | 1.6" Adjustable | NO | R658SHT8F |
| 0-2000° | Steel | 1/8" NPT | 1.6" Adjustable | YES | R658SHT8FPL |
| 0-2000° | Steel | 1/4" NPT | 1.6" Adjustable | NO | R658SHT |
| 0-2000° | Steel | 1/4" NPT | 1.6" Adjustable | YES | R658SHTPL |
| 0-2000° | Steel | 1/4" NPT | 1.6" | NO | R650SHT |
| 0-2000° | Steel | 1/4" NPT | 1.6" | YES | R650SHTPL |
| 0-2000° | Steel | 1/4" NPT | 2.25" | NO | R650HT |
| 0-2000° | Steel | 1/4" NPT | 2.25" | YES | R650HTPL |
| 0-2000° | Steel | 1/4" NPT | 2.25" Adjustable | NO | R658HT |
| 0-2000° | Steel | 1/4" NPT | 2.25" Adjustable | YES | R658HTPL |
| 0-2000° | Steel | Clamp | 2.25" Adjustable | NO | R650AHT |
| 0-2000° | Steel | Clamp | 2.25" Adjustable | YES | R650AHTPL |

- Thermocouple probe length and installation should place the tip of the thermocouple in the middle of the exhaust flow.
- Thermocouples with steel fittings are used in gasoline and diesel high performance applications.
- Thermocouples with brass fittings are recommended for marine use and all other standard applications.
- 1.6" Adjustable thermocouples are typically used for manifold installations.
- Plug versions recommended for marine or high corrosion environments.
- Non-plug versions have ring terminals for electrical connection.

THERMOCOUPLE ACCESSORIES

| Description | Part No. |
|---|----------|
| Weld Bushing (To Weld Onto Exhaust Tube For a 1/4" NPTF Connection To Mount Thermocouple) | R680 |
| Weld Bushing (To Weld Onto Exhaust Tube For a 1/8" NPTF Connection To Mount Thermocouple) | R685 |
| 1/8"-27 NPTF Brass Compression Fitting | R681 |
| 1/4"-18 NPTF Brass Compression Fitting | R682 |
| 1/8"-27 NPTF Steel Compression Fitting For High Temperature Applications | R683 |
| 1/4"-18 NPTF Steel Compression Fitting For High Temperature Applications | R684 |
| Fiberglass Sleeves (To Protect Thermocouple Leads From Shorting Each Other) | R7980 |



Classic THERMOCOUPLES & ACCESSORIES

LEAD WIRES (Numerical Suffix Indicates Length in Feet)

| Description | Part No. |
|---|-----------|
| 6' Lead Wire without Plug in Connector | R660-6 |
| 6' Lead Wire with Plug in Connector | R660-6PL |
| 8' Lead Wire without Plug in Connector | R660-8 |
| 8' Lead Wire with Plug in Connection | R660-8PL |
| 10' Lead Wire without Plug in Connection | R660-10 |
| 10' Lead Wire with Plug in Connection | R660-10PL |
| 14' Lead Wire without Plug in Connection | R660-14 |
| 14' Lead Wire with Plug in Connection | R660-14PL |
| XX' Lead Wire without Plug in Connection* | R660-XX |
| XX' Lead Wire with Plug in Connection* | R660-XXPL |

- Plug versions recommended for marine or high corrosion environments.
- Non-plug versions have ring terminals for electrical connection

* Lead wires above 20' are available in 5' increments.
Lead wires up to 50' are stocked.
Longer lengths available by special order.

R600 PYROMETER TESTER

| Description | Part No. |
|--|----------|
| The R600 is used for testing pyrometers, thermocouples and lead wires. | R600 |



3" TURBOCATOR Scales to Monitor Exhaust Temperature & Turbo Boost Pressure

| Temperature Scale | Boost Range | Bezel | Part No. |
|-------------------|-------------|--------|----------|
| 300-1500°F | 0-30 PSI | Black | R609 |
| 300-1500°F | 0-30 PSI | Chrome | R609P |



R609P

Classic PYROMETERS & ACCESSORIES

LOW TEMPERATURE PYROMETERS For use with Type J Thermocouples



| Diameter | Scale | Bezel | Pointer | Part No. |
|----------|--------|-------|---------|----------|
| 2 1/16" | 0-600° | Black | Red | R616 |
| 3" | 0-600° | Black | Red | R614 |

TYPE J LOW TEMPERATURE THERMOCOUPLES

| Scale | Mounting | Part No. |
|--------|------------|----------|
| 0-600° | 1/4" NPT | R654 |
| 0-600° | 14 mm Ring | R6514 |



LOW TEMPERATURE LEAD WIRES

| Description | Part No. |
|---|------------------|
| Low temperature iron constantan. 3' is standard. | R653-(# of feet) |



CLASSIC

Did you know?

ISSPRO began in 1949 as a speedometer repair shop in Portland, Oregon. We are different from most gauge manufacturers in that we are not part of a global conglomerate. The family that started the business still owns ISSPRO and is involved in daily operations. We take pride in our past and control our own future.



Classic MECHANICAL SPEEDOMETERS

Calibrated for Applications Generating 1,000 Cable Revolutions/Mile (Except Metric Versions)

| Diameter | Scale | Odometer | Bezel | Pointer | Part No. |
|-----------------|-----------------------|------------|--------|----------------|----------|
| 3 3/8" 85 mm | 0-80 MPH | Yes + Trip | Black | White Tip | R8492 |
| 3 3/8" 85 mm | 0-80 MPH | Yes + Trip | Chrome | White Tip | R8493 |
| 3 3/8" 85 mm | 0-80 MPH | Yes | Chrome | White Tip | R8498 |
| 3 3/8" 85 mm | 0-80 MPH | Yes | Black | White Tip | R8499 |
| 3 3/8" 85 mm | 0-120 mph | Yes | Chrome | White Tip | R8440 |
| 3 3/8" 85 mm | 0-120 mph | Yes | Black | White Tip | R8441 |
| 3 3/8" 85 mm | 0-120 mph | Yes + Trip | Chrome | White Tip | R8494 |
| 3 3/8" 85 mm | 0-120 mph | Yes + Trip | Black | White Tip | R8495 |
| 3 3/8" 85 mm | 0-140 KPH | Yes + Trip | Black | White Tip | R8490 |
| 85 mm 3 3/8" | 0-140 KPH | Yes + Trip | Chrome | White Tip | R8490C |
| 85 mm 3 3/8" | 0-140 KPH | Yes | Black | White Tip | R8491 |
| 85 mm 3 3/8" | 0-140 KPH | Yes | Chrome | White Tip | R8491C |
| 3 3/8" 85 mm | 0-80 MPH 0-130 KPH | Yes | Black | Red-Orange Tip | R8496 |
| 5" 127 mm | 0-80 MPH 0-130 KPH | Yes | Black | White Tip | R8430 |
| 5" 127 mm | 0-80 MPH | Yes | Black | Red-Orange Tip | R8430R |



CLASSIC

Standard SAE Mounting Holes
Standard SAE .104" Square tip and 5/8"-18 Connection.

Includes light kit and mounting hardware.

Classic PROGRAMMABLE SPEEDOMETERS 12/24 VDC

| | Diameter | Scale | Odometer | Bezel | Pointer | 2 Speed Axle Switching | Part No. |
|--|----------------|------------------------|-----------------|--------|----------------|------------------------|----------------------------|
| | 3 3/8" 85mm | 0-30 MPH 0-50 KPH | No | Black | Red-orange Tip | No | R8474 |
| | 3 3/8" 85mm | 0-30 MPH 0-50 KPH | Yes | Black | Red-orange Tip | No | R8475 |
| | 3 3/8" 85mm | 0-30 MPH 0-50 KPH | No | Black | Red-orange Tip | No | R8476 (X10 Calibration) |
| | 3 3/8" 85mm | 0-30 MPH 0-50 KPH | Yes | Black | Red-orange Tip | No | R8477 (X10 Calibration) |
| | 3 3/8" 85mm | 0-50 MPH 0-80 KPH | No | Black | Red-orange Tip | No | R8478 |
| | 3 3/8" 85mm | 0-50 MPH 0-80 KPH | Yes | Black | Red-orange Tip | No | R8479 |
| | 3 3/8" 85mm | 0-80 MPH 0-130 KPH | Yes | Black | Red-orange Tip | No | R8460 |
| | 3 3/8" 85mm | 0-80 MPH 0-130 KPH | Yes | Black | Red-orange Tip | Yes | R8460M |
| | 3 3/8" 85mm | 0-80 MPH 0-130 KPH | Yes Settable | Black | Red-orange Tip | Yes | R8460M-SET |
| | 3 3/8" 85mm | 0-80 MPH 0-130 KPH | Yes | Chrome | Red-orange Tip | Yes | R8460MC |
| | 3 3/8" 85mm | 0-120 MPH 0-180 KPH | Yes | Black | Red-orange Tip | No | R8481 |
| | 3 3/8" 85mm | 0-170 MPH 0-274 KPH | Yes | Chrome | White Tip | No | R8470 |
| | 3 3/8" 85mm | 0-170 MPH 0-274 KPH | Yes | Black | White Tip | No | R8471 |
| | 3 3/8" 85mm | 0-80 MPH | No | Black | White Tip | No | R8450 |
| | 3 3/8" 85mm | 0-80 MPH | No | Black | White Tip | Yes | R8450M |
| | 3 3/8" 85mm | 0-80 MPH | Yes | Black | White Tip | No | R8480 |
| | 3 3/8" 85mm | 0-80 MPH | Yes Settable | Black | White Tip | No | R8480-SET |

CLASSIC

12/24 VDC *Classic* PROGRAMMABLE SPEEDOMETERS

| Diameter | Scale | Odometer | Bezel | Pointer | 2 Speed Axle Switching | Part No. |
|-----------------|-----------------------|-----------------|--------|----------------|------------------------|-------------|
| 3 3/8" 85mm | 0-80 MPH | Yes | Chrome | White Tip | No | R8480C |
| 3 3/8" 85mm | 0-80 MPH | Yes Settable | Chrome | White Tip | No | R8480C-SET |
| 3 3/8" 85mm | 0-80 MPH | Yes | Black | White Tip | Yes | R8480M |
| 3 3/8" 85mm | 0-80 MPH | Yes Settable | Black | White Tip | Yes | R8480M-SET |
| 3 3/8" 85mm | 0-80 MPH | Yes | Chrome | White Tip | Yes | R8480MC |
| 3 3/8" 85mm | 0-80 MPH | Yes Settable | Chrome | White Tip | Yes | R8480MC-SET |
| 3 3/8" 85mm | 0-120 mph | Yes | Black | White Tip | No | R8482 |
| 3 3/8" 85mm | 0-120 MPH | Yes | Chrome | White Tip | No | R8482C |
| 3 3/8" 85mm | 0-140 KPH | Yes | Black | White Tip | No | R8401 |
| 3 3/8" 85mm | 0-140 KPH | Yes | Black | White Tip | Yes | R8401M |
| 4 5/8" 118mm | 0-85 MPH 0-140 KPH | Yes | Black | Red-orange Tip | Yes | R8416M |
| 4 5/8" 118mm | 0-140 KPH (in Kms) | Yes | Black | Red-orange Tip | Yes | R8418M |
| 5" 127mm | 0-80 MPH | Yes | Black | White Tip | Yes | R8410M |
| 5" 127mm | 0-80 MPH | Yes | Black | Red-orange Tip | Yes | R8410MR |
| 5" 127mm | 0-80 MPH 0-130 KPH | Yes | Black | Red-orange Tip | Yes | R8412M |



CLASSIC

*For 24 VDC NG applications, a 24 VDC bulb must be purchased separately.

Classic MECHANICAL TACHOMETERS

Includes light kit and mounting hardware.



| Diameter | Scale | Hourmeter | Bezel | Pointer | Ratio | Part No. |
|-----------------|------------|-----------|--------|----------------|----------|-----------|
| 3 3/8" 85 mm | 0-2500 rpm | Yes | Chrome | White Tip | 1:1 | RTH88 |
| 3 3/8" 85 mm | 0-2500 rpm | Yes | Chrome | White Tip | 1:1 CCW | RTH89 |
| 3 3/8" 85 mm | 0-2500 rpm | Yes | Chrome | White Tip | .5:1 | RTH91 |
| 3 3/8" 85 mm | 0-2500 rpm | Yes | Chrome | White Tip | .5-1 CCW | RTH92 |
| 3 3/8" 85 mm | 0-3500 rpm | No | Black | White Tip | .5:1 | R8597 |
| 3 3/8" 85 mm | 0-3500 rpm | No | Chrome | White Tip | .5:1 | R8597-001 |
| 3 3/8" 85 mm | 0-3500 rpm | Yes | Chrome | White Tip | .5:1 | R8598 |
| 3 3/8" 85 mm | 0-3500 rpm | No | Chrome | White Tip | 1:1 | R85981 |
| 3 3/8" 85 mm | 0-3500 rpm | Yes | Chrome | White Tip | 1:1 | R85985 |
| 3 3/8" 85 mm | 0-3500 rpm | Yes | Black | White Tip | .5:1 | R8599 |
| 3 3/8" 85 mm | 0-3500 rpm | No | Black | White Tip | 1:1 | R85991 |
| 3 3/8" 85 mm | 0-3500 rpm | Yes | Black | White Tip | 1:1 | R85995 |
| 3 3/8" 85 mm | 0-5000 rpm | No | Black | White Tip | .5:1 | R8596 |
| 3 3/8" 85 mm | 0-5000 rpm | No | Chrome | White Tip | .5:1 | R8596-001 |
| 5" (127 mm) | 0-3000 rpm | No | Black | White Tip | .5:1 | R8550 |
| 5" (127 mm) | 0-3000 rpm | No | Black | Red-Orange Tip | .5:1 | R8550R |
| 5" (127 mm) | 0-3000 rpm | Yes | Black | White Tip | .5:1 | R8550S |
| 5" (127 mm) | 0-3000 rpm | Yes | Black | Red-Orange Tip | .5:1 | R8550SR |
| 5" (127 mm) | 0-5000 rpm | No | Black | White Tip | .5:1 | R8556 |
| 5" (127 mm) | 0-5000 rpm | No | Chrome | White Tip | .5:1 | R8556-001 |

CLASSIC

Standard SAE Mounting Holes
Standard SAE .104" Square tip and 5/8"-18 Connection.

2 1/16" 12 VDC NG

| Application | Scale | Tach Part No. | Sensor Kit Part No.* |
|--|------------|---------------|--|
| Universal 3K | 0-3000 RPM | R8501 | R8906 |
| Dodge/Cummins Pre '92 1991 and earlier, no computer | 0-3000 RPM | R8501 | R8912 |
| Dodge/Cummins Post '92 1991 1/2 Forward with computer | 0-3000 RPM | R8501 | R8912-92 (Harness) |
| GM 6.2/6.5 Liter | 0-4000 RPM | R8503 | R8900 |
| Ford 6.9/7.3 Liter | 0-4000 RPM | R8503 | R8901 |
| Universal 4K | 0-4000 RPM | R8503 | R8906 |
| Universal 5K | 0-5000 RPM | R8504 | R8906 |
| Universal 6K | 0-6000 RPM | R8591 | R8906 |
| Magnet Kit with Epoxy Sensors Only | | | R8911 Add "S0" to Sensor Kit Part No. |

Sensor Kits must be ordered separately.
Kits include sensor, magnets, and epoxy needed for a typical installation.
The sensor is mounted to an oil pan bolt and the magnets are mounted to the front engine pulley.

DIGITAL HAND-HELD LCD TACHOMETER W/MEMORY

| Description | Scale | Accuracy | Part No. |
|------------------------|------------------|-------------------------------|----------|
| Digital Hand-held Tach | 6 to 100,000 RPM | +/- .1 RPM for 5 to 999.9 RPM | R1620D |

The Digital Hand-held Tach uses a laser beam to measure rotational speeds without mechanical contact on any rotating object. Includes Carrying Case, Batteries & Reflective Tape.

| | |
|-----------------------------------|------------|
| Additional Reflective Tape (2 ft) | R1620-TAPE |
|-----------------------------------|------------|

PULSE DISTRIBUTION MODULE

| Description | Part No. |
|--|--------------------|
| This module solves problems caused by attaching multiple instruments to one magnetic speed sender or pulse generator. It accepts your existing speedometer or tachometer signal and will boost and isolate it into five separate outputs. These can be used to drive speedometers, on-board computers, cruise control, taximeters and other devices that use the signal without weak or intermittent signals and interference. | R4605 12-24 VDC |



Classic ALTERNATOR & IGNITION TACHOMETERS

2-1/16" Ignition Tachs (12 VDC NG) For 4, 6, or 8 cylinder, 4 stroke engines with coil type ignition or tach output connection



| Scale | Hourmeter | Bezel | Pointer | Part No. |
|------------|-----------|-------|------------|----------|
| 0-4000 RPM | No | Black | Red-orange | R8508 |
| 0-5000 RPM | No | Black | Red-orange | R8509 |
| 0-6000 RPM | No | Black | Red-orange | R8510 |

3-3/8" Air Core Ignition Tachs (12/24 VDC NG) For 4, 6, or 8 cylinder, 4 stroke engines with coil type ignition or tach output connection



| Scale | Hourmeter | Bezel | Pointer | Part No. |
|------------|-----------|-------|---------|----------|
| 0-3000 RPM | No | Black | White | R85070 |
| 0-3000 RPM | Yes | Black | White | R85075 |
| 0-4000 RPM | No | Black | White | R85080 |
| 0-4000 RPM | Yes | Black | White | R85085 |
| 0-5000 RPM | No | Black | White | R85090 |
| 0-5000 RPM | Yes | Black | White | R85095 |
| 0-6000 RPM | No | Black | White | R85100 |
| 0-6000 RPM | Yes | Black | White | R85105 |
| 0-8000 RPM | No | Black | White | R85110 |
| 0-8000 RPM | Yes | Black | White | R85115 |

3-3/8" Alternator Tachs (12/24 VDC NG) These tachometers are designed for alternator applications with an AC tap and are field calibratable. Will not work on DC.



| Scale | Hourmeter | Pointer | Part No. |
|------------|-----------|----------------|----------|
| 0-2000 RPM | No | White Tip | R85200 |
| 0-2000 RPM | Yes | White Tip | R85205 |
| 0-3000 RPM | No | White Tip | R85210 |
| 0-3000 RPM | Yes | White Tip | R85215 |
| 0-4000 RPM | No | White Tip | R85220 |
| 0-4000 RPM | No | Red-Orange Tip | R85220R |
| 0-4000 RPM | Yes | White Tip | R85225 |
| 0-6000 RPM | No | White Tip | R85230 |
| 0-6000 RPM | Yes | White Tip | R85235 |
| 0-8000 RPM | No | White Tip | R85240 |
| 0-8000 RPM | Yes | White Tip | R85245 |

*For 24 VDC NG applications, a 24 VDC bulb must be purchased separately.

Classic PROGRAMMABLE TACHOMETERS

Our programmable tachometers accept signals from pulse generators, magnetic senders, or AC taps

| Diameter | Scale | Hourmeter | Bezel | Pointer | Part No. |
|-----------------|------------|-----------------|--------|----------------|-------------|
| 3 3/8" (85 mm) | 0-1000 RPM | No | Black | White Tip | R8580M |
| 3 3/8" (85 mm) | 0-1000 RPM | Yes | Black | White Tip | R85805M |
| 3 3/8" (85 mm) | 0-1500 RPM | No | Black | White Tip | R8581M |
| 3 3/8" (85 mm) | 0-1500 RPM | Yes | Black | White Tip | R85815M |
| 3 3/8" (85 mm) | 0-2000 rpm | No | Black | White Tip | R8529M |
| 3 3/8" (85 mm) | 0-2000 rpm | Yes | Black | White Tip | R85295M |
| 3 3/8" (85 mm) | 0-3000 RPM | No | Black | White Tip | R8530M |
| 3 3/8" (85 mm) | 0-3000 RPM | Yes | Black | White Tip | R85305M |
| 3 3/8" (85 mm) | 0-3000 RPM | Yes Settable | Black | White Tip | R85305M-SET |
| 3 3/8" (85 mm) | 0-3000 RPM | Yes | Chrome | White Tip | R85305MC |
| 3 3/8" (85 mm) | 0-3000 RPM | No | Black | Red-Orange Tip | R8531M |
| 3 3/8" (85 mm) | 0-3000 RPM | Yes | Black | Red-Orange Tip | R85315M |
| 3 3/8" (85 mm) | 0-4000 RPM | No | Black | White Tip | R8585M |
| 3 3/8" (85 mm) | 0-4000 RPM | Yes | Black | White Tip | R85855M |
| 3 3/8" (85 mm) | 0-5000 RPM | No | Black | White Tip | R8586M |
| 3 3/8" (85 mm) | 0-5000 RPM | Yes | Black | White Tip | R85865M |
| 3 3/8" (85 mm) | 0-6000 RPM | No | Black | White Tip | R8584M |
| 3 3/8" (85 mm) | 0-6000 RPM | Yes | Black | White Tip | R85845M |
| 3-3/8" (85 mm) | 0-8000 RPM | No | Black | White Tip | R8588M |
| 4 5/8" (118 mm) | 0-3500 RPM | No | Black | Red-Orange Tip | R85600M |
| 5" (127 mm) | 0-3000 RPM | No | Black | White Tip | R8540M |
| 5" (127 mm) | 0-3000 RPM | No | Black | Red-Orange Tip | R8540MR |



CLASSIC

For 24VDC NG applications, a 24 VDC bulb must be purchased separately.

MAGNETIC SENSORS

| Overall Length | Adjustable Thread Length | Connection | Mounting Threads | Part No. |
|----------------|--------------------------|-------------------------|------------------|----------|
| 2.6" | 2.00" | Wire Leads | 3/4"-16 | R8930 |
| 2.6" | 2.00" | Plug w/mating connector | 3/4"-16 | R8938 |
| 3" | 2.00" | Terminals | 3/4"-16 | R8935 |
| 3.1" | 2.37" | Wire Leads | 3/4"-16 | R8932 |
| 3.5" | 2.37" | Terminals | 3/4"-16 | R8937 |
| 4" | 3.50" | Wire Leads | 5/8"-18 | R8933 |
| 4.4" | 3.75" | Wire Leads | 3/4"-16 | R8931 |
| 4.8" | 3.75" | Terminals | 3/4"-16 | R8936 |
| 4" | 2.00" | Wire Leads Dual Output | 3/4"-16 | R8939 |

SIGNAL GENERATORS (30 PULSES/REV)

| Thread Size | Connection | Part No. |
|---------------------------------|--------------------------------------|----------|
| Sender • 7/8"-18 • generator | 1 male drive tip required | R8970 |
| Sender • 7/8"-18 • feed through | 1 male & 1 female drive tip required | R8941 |

DRIVE TIPS FOR SIGNAL GENERATORS - MALE

| Description | Part No. |
|-------------------------------------|----------|
| .152" Tang (fits drill size 5/32") | R8971 |
| .187" Tang (fits drill size 3/16") | R8972 |
| .203" Tang (fits drill size 13/64") | R8973 |
| .104" Square | R8974 |
| .150" Square | R8979 |

DRIVE TIPS FOR SIGNAL GENERATORS - FEMALE

| Description | Part No. |
|-------------------|----------|
| .203" Tang Hole | R8975 |
| .104" Square Hole | R8976 |
| .152" Tang Hole | R8977 |
| .187" Tang Hole | R8978 |

INTERCONNECT HARNESSES

For Installation of ISSPRO Speedometers and Tachometers in older OEM Applications

| OEM Part No. | ISSPRO Replacement Gauge | ISSPRO Replacement Harness |
|------------------------|--------------------------|----------------------------|
| Peterbilt 17-03551-001 | R8450 | R7032 |
| Peterbilt 17-03551-002 | R8480 | R7032 |
| Peterbilt 17-03552-001 | R8530M | R7032 |
| Peterbilt 17-03552-002 | R85305M | R7032 |
| Peterbilt 17-03190 | R8480 | R7034 |
| Peterbilt 17-03183 | R8530M | R7034 |
| Navistar 1682070C91 | R8416M or R8418M | R7036 |
| Navistar 1682071C91 | R85600M | R7036 |
| Kenworth K152-473-1 | R8540M | R7038 |
| Kenworth K152-471-1 | R8412M | R7040 |

AIR PRESSURE

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit* | Length |
|---------------------------|--------|----------------|----------|----------------------|--------|
| 10-150 PSI | Black | White Tip | R8605 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 10-150 PSI | Chrome | White Tip | R8705 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 10-150 PSI 70-1035 kPa | Black | Red Orange Tip | R9005 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 10-150 PSI 70-1035 kPa | Chrome | Red Orange Tip | R9705 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |

DUAL AIR PRESSURE

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit* | Length |
|-------------------------|--------|---------------------------|----------|----------------------|--------|
| 0-150 PSI | Black | Top Pointer White | R8606 | R7110 | 6' |
| | | Bottom Pointer Red Orange | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 0-150 PSI | Chrome | Top Pointer White | R8706 | R7110 | 6' |
| | | Bottom Pointer Red Orange | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 0-150 PSI 0-1050 kPa | Black | Top Pointer White | R9006 | R7110 | 6' |
| | | Bottom Pointer Red Orange | | R7110-10 | 10' |
| | | | | R7172 | 16' |

AIR CLEANER RESTRICTION Not Lighted

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit* | Length |
|-------------|--------|------------|----------|----------------------|--------|
| 0-40 in.H2O | Black | Red Orange | R8670R | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 0-40 in.H2O | Chrome | Red Orange | R8770R | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |

AXLE LOAD Not Lighted

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit* | Length |
|--------------|--------|------------|----------|----------------------|--------|
| 5k-55k lbs | Chrome | Red Orange | R8820 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 7.5k-45k lbs | Chrome | Red Orange | R8821 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |

*Pressure Tubing Kits Sold Separately

Contact factory for custom length tubing kits.

DRIVE OIL PRESSURE

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit* (braided stainless steel) | Length |
|----------------------------|--------|----------------|----------|---|--------|
| 20-300 PSI | Chrome | White Tip | R8717 | R78824-3 | 3' |
| | | | | R78824-6 | 6' |
| | | | | R78824-8 | 8' |
| 25-400 PSI | Black | White Tip | R8608 | R78824-3 | 3' |
| | | | | R78824-6 | 6' |
| | | | | R78824-8 | 8' |
| 25-400 PSI | Chrome | White Tip | R8708 | R78824-3 | 3' |
| | | | | R78824-6 | 6' |
| | | | | R78824-8 | 8' |
| 25-400 PSI 170-3000 kPa | Black | Red Orange Tip | R9008 | R78824-3 | 3' |
| | | | | R78824-6 | 6' |
| | | | | R78824-8 | 8' |
| 25-400 PSI 170-3000 kPa | Chrome | Red Orange Tip | R9708 | R78824-3 | 3' |
| | | | | R78824-6 | 6' |
| | | | | R78824-8 | 8' |

FUEL PRESSURE Isolator/snubber recommended

| Scale | Bezel | Pointer | Part No. | Pressure Tubing |
|------------|--------|-----------|----------|---|
| 5-100 PSI | Black | White Tip | R8607 | Recommend 3/16" braided stainless steel hose (See page 14) |
| 5-100 PSI | Chrome | White Tip | R8707 | Recommend 3/16" braided stainless steel hose (See page 14) |
| 2-30 PSI | Chrome | White Tip | R8709 | Recommend 3/16" braided stainless steel hose (See page 14) |
| 10-200 PSI | Chrome | White Tip | R8714 | Recommend 3/16" braided stainless steel hose (See page 14) |

MANIFOLD PRESSURE

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit* | Length |
|----------|--------|----------------|----------|----------------------|--------|
| 1-15 PSI | Black | White Tip | R8611 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 1-15 PSI | Black | Red Orange Tip | R8611R | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 1-15 PSI | Chrome | White Tip | R8711 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 2-30 PSI | Black | White Tip | R8610 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 2-30 PSI | Chrome | White Tip | R8710 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |

Classic MECHANICAL PRESSURE & VACUUM GAUGES 2 1/16"

OIL PRESSURE

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit | Length |
|-------------------------|--------|----------------|----------|---|--------|
| 2-50 PSI | Black | White Tip | R8602 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 2-50 PSI | Chrome | White Tip | R8702 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 2-50 PSI 35-345 kPa | Black | Red Orange Tip | R9002 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 5-80 PSI | Black | White Tip | R8600 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 5-80 PSI | Chrome | White Tip | R8700 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 5-80 PSI 35-345 kPa | Black | Red Orange Tip | R9000 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 5-100 PSI | Black | White Tip | R8601 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 5-100 PSI | Chrome | White Tip | R8701 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 5-100 PSI 35-700 kPa | Black | Red Orange Tip | R9001 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 5-100 PSI 35-700 kPa | Chrome | Red Orange Tip | R9701 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 10-200 PSI | Chrome | White Tip | R8712 | Braided stainless steel hose is recommended (see page 14) | |

TURBO PRESSURE

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit | Length |
|----------|--------|----------------|----------|---------------------|--------|
| 2-50 PSI | Black | White Tip | R8603 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 2-50 PSI | Black | Red Orange Tip | R8603R | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 2-50 PSI | Chrome | White Tip | R8703 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |

VACUUM/TURBO BOOST

| Scale | Bezel | Pointer | Part No. | Pressure Tubing Kit | Length |
|-----------------------|--------|-----------|----------|---------------------|--------|
| 0-30 in Hg 0-15PSI | Black | White Tip | R8870 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |
| 0-30 in Hg 0-15PSI | Chrome | White Tip | R8871 | R7110 | 6' |
| | | | | R7110-10 | 10' |
| | | | | R7172 | 16' |



CLASSIC

Classic MECHANICAL 2 1/16" VACUUM GAUGES

VACUUM



| Scale | Bezel | Pointer | Part No. | Vacuum Tubing Kit (Included with gauge) |
|----------------------------|--------|----------------|----------|--|
| 2-30 in Hg | Black | White Tip | R8675 | R7111 |
| 2-30 in Hg | Black | Red Orange Tip | R8675R | R7111 |
| 2-30 in Hg | Chrome | White Tip | R8775 | R7111 |
| 2-30 in Hg 50-760 mm Hg | Black | Red Orange Tip | R9075 | R7111 |
| 2-30 in Hg 50-760 mm Hg | Chrome | Red Orange Tip | R9775 | R7111 |

Did you know?



We're Famous for Fuel Level Senders

Our Ultimate Fuel Level Sender is the most reliable and accurate fuel level sender on the market today.

It is the fuel level sender of choice for many major OEM's as well as the United States military.



CLASSIC

Classic MECHANICAL 2 1/16" TEMPERATURE GAUGES

OIL TEMPERATURE

| Scale | Bezel | Pointer | Capillary | Part No. |
|------------------------|--------|----------------|------------|----------|
| 140-325° F | Black | White Tip | 72" (6') | R8635 |
| 140-325° F | Chrome | White Tip | 72" (6') | R8735 |
| 140-325° F | Black | White Tip | 144" (12') | R8636 |
| 140-325° F | Chrome | White Tip | 144" (12') | R8736 |
| 140-325°F 60-160° C | Black | Red Orange Tip | 144" (12') | R9036 |
| 140-325°F 60-160° C | Chrome | Red Orange Tip | 144" (12') | R9736 |

WATER TEMPERATURE

| Scale | Bezel | Pointer | Capillary | Part No. |
|-------------------------|--------|----------------|-----------|----------|
| 100-265° F | Black | White Tip | 48" (4') | R8634 |
| 100-265° F | Chrome | White Tip | 48" (4') | R8734 |
| 100-265°F 40-130° C | Black | Red Orange | 48" (4') | R9034 |
| 100-265°F 40-130° C | Chrome | Red Orange | 48" (4') | R9734 |
| 100-265° F | Black | White Tip | 60" (5') | R8642 |
| 100-265° F | Chrome | White Tip | 60" (5') | R8742 |
| 100-265° F 40-130° C | Black | Red Orange Tip | 60" (5') | R9042 |
| 100-265° F 40-130° C | Chrome | Red Orange Tip | 60" (5') | R9742 |
| 100-265° F | Black | White Tip | 72" (6') | R8630 |
| 100-265° F | Chrome | White Tip | 72" (6') | R8730 |
| 100-265° F 40-130° C | Black | Red Orange Tip | 72" (6') | R9030 |
| 100-265°F 40-130° C | Chrome | Red Orange | 72" (6') | R9730 |
| 100-265° F | Black | White Tip | 96" (8') | R8632 |
| 100-265° F | Chrome | White Tip | 96" (8') | R8732 |

Gauge is supplied with adapter nut to adapt capillary tube to male thread size 1/2" NPTF (R7850). To adapt to 3/8" NPTF, order R7851. To adapt to 1/4" NPTF, order R7852.

Classic MECHANICAL 2 1/16" TEMPERATURE GAUGES

WATER TEMPERATURE

| Scale | Bezel | Pointer | Capillary | Part No. |
|-------------------------|--------|----------------|------------|----------|
| 100-265°F (40-130°C) | Black | Red Orange Tip | 96" (8') | R9032 |
| 100-265°F (40-130°C) | Chrome | Red Orange Tip | 96" (8') | R9732 |
| 100-265°F | Black | White Tip | 120" (10') | R8633 |
| 100-265°F | Chrome | White Tip | 120" (10') | R8733 |
| 100-265°F (40-130°C) | Black | Red Orange Tip | 120" (10') | R9033 |
| 100-265°F (40-130°C) | Chrome | Red Orange Tip | 120" (10') | R9733 |
| 100-265°F | Black | White Tip | 144" (12') | R8631 |
| 100-265°F | Chrome | White Tip | 144" (12') | R8731 |
| 100-265°F (40-130°C) | Black | Red Orange Tip | 144" (12') | R9031 |
| 100-265°F (40-130°C) | Chrome | Red Orange Tip | 144" (12') | R9731 |
| 100-265°F | Chrome | White Tip | 216" (18') | R8737 |
| 100-265°F (40-130°C) | Black | Red Orange Tip | 216" (18') | R9037 |
| 100-265°F | Chrome | White Tip | 288" (24') | R8738 |
| 100-265°F | Chrome | White Tip | 360" (30') | R8739 |

Gauge is supplied with adapter nut to adapt capillary tube to male thread size 1/2" NPTF (R7850). To adapt to 3/8" NPTF, order R7851. To adapt to 1/4" NPTF, order R7852.

CLASSIC

Classic MECHANICAL 3 GAUGE PANELS



OIL PRESSURE & WATER TEMPERATURE & VOLTMETER

| Oil Pressure Gauge | Color Coded Voltmeter | Water Temp Gauge | Bezels | Pointers | Part No. |
|--------------------|---------------------------|----------------------------|--------|-----------|----------|
| 5-80 PSI Scale | 12 VDC 10-16 VDC Scale | 100-265°F 72" Capillary | Black | White Tip | R8680 |
| 5-80 PSI Scale | 12 VDC 10-16 VDC Scale | 100-265°F 72" Capillary | Chrome | White Tip | R8780 |

Mounting bracket and six foot tubing kit included with panels.

AIR PRESSURE

| Scale | Bezel | Pointer | Part No. | Sender Type Code |
|-----------|--------|-----------|----------|------------------|
| 0-150 PSI | Black | White Tip | R8623 | PD - Page 36 |
| 0-150 PSI | Chrome | White Tip | R8723 | PD - Page 36 |



FUEL PRESSURE

| Scale | Bezel | Pointer | Part No. | Sender |
|-----------|--------|-----------|----------|---------------|
| 0-100 PSI | Black | White Tip | R8624 | Not Available |
| 0-100 PSI | Chrome | White Tip | R8724 | Not Available |



OIL PRESSURE

| Scale | Bezel | Pointer | Part No. | Sender Type Code |
|-------------------------|--------|----------------|-------------|---|
| 0-80 PSI | Black | White Tip | R8620 | PA - Page 36 |
| 0-80 PSI | Chrome | White Tip | R8720 | PA - Page 36 |
| 0-80 PSI 0-5 Bar | Black | Red Orange Tip | R9120 | PF - Page 36 (Compatible with VDO senders) |
| 0-80 PSI 0-5 Bar | Black | Red Orange Tip | R9120-24VDC | PF - Page 36 (Compatible with VDO senders) |
| 0-80 PSI 0-550 kPa | Black | Red Orange Tip | R9020 | PA - Page 36 |
| 0-80 PSI | Chrome | Red Orange Tip | R9720 | PA - Page 36 |
| 0-100 PSI | Black | White Tip | R8621 | PB - Page 36 |
| 0-100 PSI | Chrome | White Tip | R8721 | PB - Page 36 |
| 0-100 PSI 0-700 kPa | Black | Red Orange Tip | R9021 | PB - Page 36 |
| 0-100 PSI 0-700 kPa | Black | Red Orange Tip | R9021-24VDC | PB - Page 36 |
| 0-100 PSI 0-700 kPa | Chrome | Red Orange Tip | R9721 | PB - Page 36 |
| 0-150 PSI 0-1030 kPa | Black | Red-Orange Tip | R9029 | PD - Page 36 |
| 0-150 PSI 0-1030 kPa | Chrome | Red Orange Tip | R9729 | PD - Page 36 |
| 0-150 PSI 0-10 Bar | Black | Red Orange Tip | R9123 | PG - Page 36 (Compatible with VDO senders) |
| 0-150 PSI 0-10 Bar | Chrome | Red Orange Tip | R9123-24VDC | PG - Page 36 (Compatible with VDO senders) |



Classic ELECTRICAL 2 1/16" PRESSURE GAUGES

TRANSMISSION OIL PRESSURE



| Voltage | Scale | Bezel | Pointer | Part No. | Sender Type Code |
|---------|-----------------------|-------|----------------|--------------|---|
| 12V | 0-350 PSI | Black | White Tip | R8125 | PH (below) (Compatible with VDO senders) |
| 24 V | 0-350 PSI | Black | White Tip | R8125 24 VDC | PH(below) (Compatible with VDO senders) |
| 12V | 0-350 PSI 0-25 Bar | Black | Red Orange Tip | R9125 | PH (below) (Compatible with VDO senders) |
| 24 V | 0-350 PSI 0-25 Bar | Black | Red Orange Tip | R9125 24 VDC | PH(below) (Compatible with VDO senders) |

Classic 1/8" PRESSURE SENDERS FOR OIL & AIR APPLICATIONS

CLASSIC



| Scale | Type Code | Terminals | Part No. |
|------------------|-----------|---------------------------|--------------------------|
| 0-80 PSI | PA | 1 Stud | R8916 |
| 0-80 PSI | PA | 2 Stud Dual Station | R8916-02 |
| 0-80 PSI | PA | 2 Stud Isolated ground | R8916-03 |
| 0-100 PSI | PB | 1 Stud | R8917 |
| 0-100 PSI | PB | 2 Stud Dual Station | R8917-02 |
| 0-100 PSI | PB | 2 Stud Isolated ground | R8917-03 |
| 0-150 PSI | PD | 1 Stud | R8919 |
| 0-150 PSI | PD | 2 Stud Isolated ground | R8919-03 |
| 0-80 PSI/5 Bar | PF | 1 Stud | R89805 VDO compatible |
| 0-150 PSI/10 Bar | PG | 1 Stud | R89810 VDO compatible |
| 0-350 PSI/25 Bar | PH | 2 Stud Isolated ground | R89825 VDO compatible |

Senders are 1/8" NPTF.
 Unless otherwise noted, these senders are grounded through body.
 These units are not for use in fuel pressure applications.
 To order metric adapter fitting kit, specify P/N R7969.
 Kit includes M10 x 1.0, M12 x 1.5, M16 x 1.5 and M18 x 1.5 to 1/8" NPTF adapters.
 M14 x 1.25 to 1/8" NPTF adapter is available separately as P/N R7966.

Classic PRESSURE SENSOR ACCESSORIES

Boost Bolt 5.9L & 6.7L Dodge (M8 x 1.25)

Part No.

Replaces factory intake manifold bolt so boost gauge can be installed without drilling/tapping. Has tapped $\frac{1}{8}$ " NPT port.

R7741



BANJO BOLT '94-'07 DODGE

Part No.

For Dodge fuel pressure measurement on stock fuel supply lines.

R7743



Metric Adapter Fitting

Part No.

M14 x 1.25 to $\frac{1}{8}$ " NPTF adapter. Not included in kit.

R7966



Metric Adapter Fitting Kit

Part No.

M10 x 1.0 • M12 x 1.5 • M14 x 1.5 • M16 x 1.5 • M18 x 1.5
to $\frac{1}{8}$ " NPTF adapters.

R7969



M12 x 1.5 Male X $\frac{1}{8}$ " NPT FEMALE ADAPTER

Part No.

For fuel pressure measurement on a 6.0 L Powerstroke engine.

R7962



ORIFICE BASED SNUBBER

Part No.

Restricts flow to dampen pulsations.

R7800



PISTON BASED SNUBBER

Part No.

Restricts flow to dampen pulsations.
Comes with 3 pistons for different rates of damping.

R7798



NEEDLE VALVE

Part No.

Acts as an adjustable snubber, to dampen pulsations.

R7742



CLASSIC

Classic ELECTRICAL 2 1/16" TEMPERATURE GAUGES

OIL TEMPERATURE

| | Scale | Bezel | Pointer | Part No. | Sender Type Code |
|---|-------------------------|--------|----------------|--------------|---|
|  | 120-300° F 50-150° C | Black | Red-orange Tip | R9154 | TG (Page 40) (Compatible with VDD Senders) |
|  | 120-300° F 50-150° C | Black | Red-orange Tip | R9154-24 VDC | TG (Page 40) (Compatible with VDD Senders) |
|  | 140-320° F | Black | White Tip | R8654 | TB (Page 40) |
|  | 140-320° F | Black | Red-orange Tip | R8654R | TB (Page 40) |
|  | 140-320° F | Chrome | White Tip | R8754 | TB (Page 40) |
|  | 140-320° F 60-160° C | Black | Red-orange Tip | R9054 | TB (Page 40) |
|  | 140-320° F 60-160° C | Black | Red-orange Tip | R9054-24 VDC | TB (Page 40) |
|  | 140-320° F 60-160° C | Chrome | Red-orange Tip | R9754 | TB (Page 40) |

TEMPERATURE

| | Scale | Bezel | Pointer | Part No. | Sender Type Code |
|---|-------------------------|--------|----------------|-------------|------------------|
|  | 100-280° F | Black | White Tip | R8658 | TD (Page 40) |
|  | 100-280° F | Chrome | White Tip | R8758 | TD (Page 40) |
|  | 100-280° F 40-140° C | Black | Red-orange Tip | R9058 | TD (Page 40) |
|  | 100-280° F 40-140° C | Black | Red-orange Tip | R9058-24VDC | TD (Page 40) |
|  | 100-280° F 40-140° C | Chrome | Red-orange Tip | R9758 | TD (Page 40) |

CLASSIC

Classic ELECTRICAL 2 1/16" TEMPERATURE GAUGES

TRANSMISSION OIL TEMPERATURE

| Scale | Bezel | Pointer | Part No. | Sender Type Code |
|-----------------------|--------|----------------|--------------|------------------|
| 140-320°F | Black | Red-orange Tip | R8655R | TB (Page 40) |
| 140-320°F 60-160°C | Black | Red-orange Tip | R9055 | TB (Page 40) |
| 140-320°F 60-160°C | Chrome | Red-orange Tip | R9755 | TB (Page 40) |
| 140-320°F 60-160°C | Black | Red-orange Tip | R9055-24 VDC | TB (Page 40) |



WATER TEMPERATURE

| Scale | Bezel | Pointer | Part No. | Sender Type Code |
|-----------------------|--------|----------------|-------------|--|
| 100-240°F | Black | White Tip | R8650 | TA (Page 40) |
| 100-240°F | Chrome | White Tip | R8750 | TA (Page 40) |
| 100-240°F 40-115°C | Black | Red-orange Tip | R9050 | TA (Page 40) |
| 100-240°F 40-115°C | Black | Red-orange Tip | R9050-24VDC | TA (Page 40) |
| 100-250°F 40-120°C | Black | Red-orange Tip | R9150 | TF (Page 40) Compatible with VDO Senders. |
| 100-250°F 40-120°C | Black | Red-orange Tip | R9150-24VDC | TF (Page 40) Compatible with VDO Senders. |
| 100-240°F 40-115°C | Chrome | Red-orange Tip | R9750 | TA (Page 40) |



CLASSIC

Classic TEMPERATURE SENDERS

| | Scale | Type | Thread | Terminals | Part No. |
|---|---------------|------|---------------|-----------------------------|----------|
|  | 100-240° F | TA | 1/2" NPTF | 1 Stud | R8920 |
|  | 100-240° F | TA | 1/2" NPTF | 2 Blades Isolated ground | R8920-03 |
|  | 100-240° F | TA | 3/8" NPTF | 1 Stud | R8921 |
|  | 100-240° F | TA | 1/4" NPTF | 1 Stud | R8922 |
|  | 100-240° F | TA | 1/8" NPTF | 1 Stud | R8923 |
|  | 100-240° F | TA | 1/8" NPTF | 2 Blades Isolated ground | R8923-03 |
|  | 100-240° F | TA | M14 X 1.5 | 1 Stud | R8953 |
|  | 100-240° F | TA | M16 X 1.5 | 1 Stud | R8954 |
|  | 100-240° F | TA | M18 X 1.5 | 1 Stud | R8955 |
|  | 140-320° F | TB | M14 X 1.5 | 1 Stud | R8956 |
|  | 140-320° F | TB | M16 X 1.5 | 1 Stud | R8957 |
|  | 140-320° F | TB | M18 X 1.5 | 1 Stud | R8958 |
|  | 140-320° F | TB | 1/8" NPTF | 1 Stud | R8959 |
|  | 140-320° F | TB | 1/8" NPTF | 2 Blades Isolated ground | R8959-03 |
|  | 140-320° F | TB | 1/4" NPTF | 1 Stud | R8960 |
|  | 140-320° F | TB | 3/8" NPTF | 1 Stud | R8961 |
|  | 140-320° F | TB | 1/2" NPTF | 1 Stud | R8962 |
|  | 140-320° F | TB | 1/2" x 20 UNF | 1 Stud | R8963 |
|  | 250° F/120° C | TF | 1/2" NPTF | 1 Stud | R89850* |
|  | 300° F/150° C | TG | 1/2" NPTF | 1 Stud | R89870* |
|  | 100-280° F | TD | 1/8" NPTF | 1 Stud | R8992** |
|  | 100-240° F | TA | 1/8" NPTF | 1 Stud | R8993** |
|  | 140-320° F | TB | 1/8" NPTF | 1 Stud | R8995** |

* Compatible with VDO Gauges.

**Temperature sender kit which includes 1/4", 3/8" and 1/2" adapter bushings.

Classic 2 1/16" AMMETERS

INTERNALLY SHUNTED

| Scale | Bezel | Pointer | Part No. |
|----------------|--------|-----------------|----------|
| 30-0-30 Amps | Black | White Tip | R8668 |
| 30-0-30 Amps | Chrome | White Tip | R8768 |
| 30-0-30 Amps | Black | Red -Orange Tip | R9068 |
| 30-0-30 Amps | Chrome | Red -Orange Tip | R9768 |
| 40-0-40 Amps | Black | White Tip | R8665 |
| 40-0-40 Amps | Chrome | White Tip | R8765 |
| 60-0-60 Amps | Black | White Tip | R8666 |
| 60-0-60 Amps | Chrome | White Tip | R8766 |
| 60-0-60 Amps | Black | Red -Orange Tip | R9066 |
| 60-0-60 Amps | Chrome | Red -Orange Tip | R9766 |
| 100-0-100 Amps | Black | White Tip | R8667 |
| 100-0-100 Amps | Chrome | White Tip | R8767 |
| 100-0-100 Amps | Black | Red -Orange Tip | R9067 |
| 100-0-100 Amps | Chrome | Red -Orange Tip | R9767 |



CLASSIC

Classic ^{2 1/16"} COLOR CODED VOLTMETERS

VOLTMETERS

| | Scale | Bezel | Pointer | Part No. |
|--|------------------|--------|-----------------|----------|
|  | 12VDC/10-16 VDC | Black | White Tip | R8660 |
|  | 12VDC/10-16 VDC | Chrome | White Tip | R8760 |
|  | 12 VDC/10-16 VDC | Black | Red -orange Tip | R9060 |
|  | 12 VDC/10-16 VDC | Chrome | Red -orange Tip | R9760 |
|  | 24 VDC/20-32 VDC | Black | White Tip | R8661 |
|  | 24 VDC/20-32 VDC | Chrome | White Tip | R8761 |
|  | 24 VDC/20-32 VDC | Black | Red -orange Tip | R9061 |
|  | 24 VDC/20-32 VDC | Chrome | Red -orange Tip | R9761 |
|  | 32 VDC/26-42 VDC | Black | White Tip | R8662* |
|  | 32 VDC/26-42 VDC | Chrome | White Tip | R8762* |

* These units supplied without internal lighting.

EV Enhanced Visibility Instrumentation

Incandescent Lighting

Backlit Numerals

Illuminated Pointers

Gauges With 270° Sweep Supplied with Signal Amplifier

Dished Face Dials and Low Profile Bezels

Glass Filled Polyester Cases to Resist Vibration and Corrosion

Scratch Resistant, Water Resistant Lenses with Anti-fog Coating



12 VDC NG Operation

Frontally Sealed Gauges

EV

EV SPEEDOMETERS $3\frac{3}{8}$ "

PROGRAMMABLE* 12 or 24 VDC



| Scale | Bezel | Pointer | Odometer | Part No. |
|---------|--------|---------|----------------|----------|
| 120 MPH | Black | White | Yes + LCD Trip | R5482M |
| 120 MPH | Chrome | Blue | Yes + LCD Trip | R6482M |
| 160 MPH | Black | White | Yes + LCD Trip | R5483M |
| 160 MPH | Chrome | Blue | Yes + LCD Trip | R6483M |

*These microprocessor based speedometers are driven electronically by a signal generated from a pulse generator or magnetic pickup.

They function over a broad range of applications by using the trip knob in program mode for field programmability.

Silicone dampened air core movements provide steady readings.

Mounting hardware and lighting kit are included.

Did you know?

ISSPRO is the official gauge brand of the National Hot Rod Diesel Association.

We are avid supporters of on and off-road motorsports.

ISSPRO sponsors the annual Pacific Coast Diesel Nationals at the racetrack in Woodburn, Oregon.



EV TACHOMETERS

MECHANICAL 5:1 Drive Ratio

| Size | Scale | Bezel | Pointer | Part No. |
|--------|------------|--------|---------|-----------|
| 3 3/8" | 0-3500 RPM | Black | White | R5597 |
| 3 3/8" | 0-3500 RPM | Chrome | Blue | R6597-001 |

PROGRAMMABLE* 12/24 VDC

| Size | Scale | Bezel | Pointer | Part No. |
|--------|------------|--------|---------|----------|
| 3 3/8" | 0-3500 RPM | Black | White | R5535M |
| 3 3/8" | 0-3500 RPM | Chrome | Blue | R6535M |

IGNITION** 12/24 VDC

| Size | Scale | Bezel | Pointer | Part No. |
|---------|--|--------|---------|----------|
| 2 1/16" | 0-6000 RPM | Black | White | R5510 |
| 2 1/16" | 0-6000 RPM | Chrome | Blue | R6510 |
| 3 3/8" | 0-6000 RPM | Chrome | Blue | R65100 |
| 3 3/8" | 0-8000 RPM | Chrome | Blue | R65110 |
| 3 3/8" | 0-8000 RPM (with shift light and adjustable overspeed pointer) | Black | White | R55111 |
| 5" | 0-10000 RPM (with Recall) | Black | White | R55120 |

*They are designed to accept signals from pulse generators, magnetic sensors and alternator AC taps.

**Ignition tachometers can be used with 4, 6, or 8 cylinder engines with coil ignition or tach output connection.

EV TACHOMETERS

12/24VDC

12/24 VDC For Fixed 2 Pulses/Rev Input



| Size | Scale | Bezel | Pointer | Part No. |
|-----------|----------|--------|---------|----------|
| 2 - 1/16" | 0-3K RPM | Black | White | R5501 |
| 2 - 1/16" | 0-3K RPM | Chrome | Blue | R6501 |
| 2 - 1/16" | 0-4K RPM | Black | White | R5503 |
| 2 - 1/16" | 0-4K RPM | Chrome | Blue | R6503 |
| 2 - 1/16" | 0-5K RPM | Chrome | Blue | R6504 |
| 2 - 1/16" | 0-6K RPM | Black | White | R5591 |
| 2 - 1/16" | 0-6K RPM | Chrome | Blue | R6591 |

See page 25 for sensor kits.

EV

EV MECHANICAL PRESSURE GAUGES $2\frac{1}{16}'' \cdot 270^\circ$ Sweep

AIR PRESSURE

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|-----------|--------|------------|----------|---|
| 0-150 PSI | Black | White | R5605 | R7110 (6') • R7110-10 (10') • R7172 (16') |
| 0-150 PSI | Black | Red-orange | R5605R | R7110 (6') • R7110-10 (10') • R7172 (16') |
| 0-150 PSI | Chrome | Blue | R6705 | R7110 (6') • R7110-10 (10') • R7172 (16') |

DUAL AIR PRESSURE

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|-----------|--------|--|----------|---|
| 0-150 PSI | Black | Top pointer is white Bottom pointer is red-orange | R5606 | R7110 (6') • R7110-10 (10') • R7172 (16') |
| 0-150 PSI | Chrome | Top pointer is blue Bottom pointer is red-orange | R6706 | R7110 (6') • R7110-10 (10') • R7172 (16') |

DRIVE OIL PRESSURE

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|-----------|--------|---------|----------|---|
| 0-400 PSI | Black | White | R5608 | Braided stainless steel hose is recommended. (See page 14) |
| 0-400 PSI | Chrome | Blue | R6708 | Braided stainless steel hose is recommended. (See page 14) |

FUEL PRESSURE

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|-----------|--------|------------|----------|--|
| 0-30 PSI | Black | White | R5604 | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-30 PSI | Black | Red-orange | R5604R | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-30 PSI | Chrome | Blue | R6704 | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-30 PSI | Black | Red-orange | R6804R | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-60 PSI | Black | White | R5607 | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-60 PSI | Black | Red-orange | R5607R | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-60 PSI | Chrome | Blue | R6707 | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-60 PSI | Black | Red-orange | R6807R | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-100 PSI | Black | White | R5609 | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-100 PSI | Black | Red-orange | R5609R | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-100 PSI | Chrome | Blue | R6709 | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |
| 0-100 PSI | Black | Red-orange | R6809R | Braided stainless steel hose is recommended. (See page 14) Isolator/snubber is recommended. (See page 37) |

Contact factory for custom length tubing kits.

EV MECHANICAL PRESSURE GAUGES $2\frac{1}{16}$ " • 270° Sweep

OIL PRESSURE

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|-----------|--------|---------|----------|---|
| 0-80 PSI | Black | White | R5600 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-80 PSI | Chrome | Blue | R6700 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-100 PSI | Black | White | R5601 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-100 PSI | Chrome | Blue | R6701 | R7110 (6') R7110-10 (10') R7172 (16') |

MANIFOLD PRESSURE

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|----------|--------|------------|----------|---|
| 0-15 PSI | Black | White | R5611 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-15 PSI | Black | Red-orange | R5611R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-15 PSI | Chrome | Blue | R6711 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-40 psi | Black | White | R5610 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-40 PSI | Black | Red-orange | R5610R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-40 PSI | Chrome | Blue | R6710 | R7110 (6') R7110-10 (10') R7172 (16') |

TURBO BOOST

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|----------|--------|------------|----------|---|
| 0-30 PSI | Black | White | R5613 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-30 PSI | Black | Red-orange | R5613R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-30 PSI | Chrome | Blue | R6713 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-30 PSI | Black | Red-orange | R6813R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-40 PSI | Black | White | R5653 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-40 PSI | Black | Red-orange | R5653R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-40 PSI | Chrome | Blue | R6753 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-40 PSI | Black | Red-orange | R6853R | R7110 (6') R7110-10 (10') R7172 (16') |

EV MECHANICAL PRESSURE GAUGES $2\frac{1}{16}$ "

TURBO BOOST

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|-----------|--------|------------|----------|---|
| 0-60 PSI | Black | White | R5623 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-60 PSI | Black | Red-orange | R5623R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-60 PSI | Chrome | Blue | R6723 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-60 PSI | Black | Red-orange | R6823R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-80 PSI | Chrome | Blue | R6733 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-100 PSI | Black | Red-orange | R5643R | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-100 PSI | Chrome | Blue | R6743 | R7110 (6') R7110-10 (10') R7172 (16') |



VACUUM/TURBO PRESSURE

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|------------------------|--------|---------|----------|---|
| 0-30 in Hg 0-25 PSI | Black | White | R5870 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-30 in Hg 0-25 PSI | Chrome | Blue | R6871 | R7110 (6') R7110-10 (10') R7172 (16') |



VACUUM

| Scale | Bezel | Pointer | Part No. | Tubing Kit |
|------------|--------|---------|----------|---|
| 0-30 in Hg | Black | White | R5675 | R7110 (6') R7110-10 (10') R7172 (16') |
| 0-30 in Hg | Chrome | Blue | R6775 | R7110 (6') R7110-10 (10') R7172 (16') |



EV MECHANICAL TEMPERATURE GAUGES 2 1/16"

OIL TEMPERATURE

| | Scale | Bezel | Pointer | Capillary | Part No. |
|---|------------|--------|---------|------------|----------|
|  | 140-325° F | Black | White | 72" (6') | R5635 |
|  | 140-325° F | Chrome | Blue | 72" (6') | R6735 |
|  | 140-325° F | Black | White | 144" (12') | R5636 |
|  | 140-325° F | Chrome | Blue | 144" (12') | R6736 |

WATER TEMPERATURE

| | Scale | Bezel | Pointer | Capillary | Part No. |
|---|------------|--------|---------|------------|----------|
|  | 100-265° F | Black | White | 48" (4') | R5634 |
|  | 100-265° F | Chrome | Blue | 48" (4') | R6734 |
|  | 100-265° F | Black | White | 72" (6') | R5630 |
|  | 100-265° F | Chrome | Blue | 72" (6') | R6730 |
|  | 100-265° F | Black | White | 96" (8') | R5632 |
|  | 100-265° F | Chrome | Blue | 96" (8') | R6732 |
|  | 100-265° F | Black | White | 144" (12') | R5631 |
|  | 100-265° F | Chrome | Blue | 144" (12') | R6731 |

EV ELECTRICAL PRESSURE GAUGES $2\frac{1}{16}$ "

OIL PRESSURE

| Scale | Bezel | Pointer | Part No. |
|---------------------|--------|------------|----------|
| 0-80 PSI | Black | White | R5620 |
| 0-80 PSI | Chrome | Blue | R6720 |
| 0-100 PSI | Black | White | R5621 |
| 0-100 PSI | Black | Red-orange | R5621R |
| 0-100 PSI | Chrome | Blue | R6721 |
| 0-100 PSI 24 VDC | Black | White | R5622 |
| 0-100 PSI 24 VDC | Chrome | Blue | R6722 |



EV ELECTRICAL TEMPERATURE GAUGES $2\frac{1}{16}$ "

WATER TEMPERATURE

| Scale | Bezel | Pointer | Part No. |
|----------------------|--------|------------|----------|
| 100-240° F | Black | White | R5650 |
| 100-240° F | Black | Red-orange | R5650R |
| 100-240° F | Chrome | Blue | R6750 |
| 100-240° F 24 VDC | Black | White | R5651 |
| 100-240° F 24 VDC | Chrome | Blue | R6751 |
| 100-280° F | Black | White | R5658 |
| 100-280° F | Black | Red-orange | R5658R |
| 100-280° F | Chrome | Blue | R6758 |



Gauge purchase includes signal amplifier and sender (matched set). Sender is 1/8" NPT with 1/4", 3/8", 1/2" NPT adapters.

EV ELECTRICAL TEMPERATURE GAUGES 2 1/16"

OIL TEMPERATURE

| Scale | Bezel | Pointer | Part No. |
|----------------------|--------|------------|----------|
| 100-280° F | Black | White | R5659-0 |
| 100-280° F | Black | Red | R5659R-0 |
| 140-320° F | Black | White | R5654 |
| 140-320° F | Black | Red-orange | R5654R |
| 140-320° F | Chrome | Blue | R6754 |
| 140-320° F 24 VDC | Black | White | R5655 |
| 140-320° F 24 VDC | Chrome | Blue | R6755 |

TRANSMISSION OIL TEMPERATURE

| Scale | Bezel | Pointer | Part No. |
|----------------------|--------|------------|----------|
| 100-280° F | Black | White | R5659 |
| 100-280° F | Black | Red-orange | R5659R |
| 100-280° F | Chrome | Blue | R6759 |
| 100-280° F | Black | Red-orange | R6859R |
| 140-320° F | Black | White | R5656 |
| 140-320° F | Black | Red-orange | R5656R |
| 140-320° F | Chrome | Blue | R6756 |
| 140-320° F 24 VDC | Black | White | R5657 |
| 140-320° F 24 VDC | Chrome | Blue | R6757 |

EV ELECTRICAL AIR CORE PYROMETERS 2 1/16"

| Scale | Bezel | Pointer | Color Coding | Part No. |
|-------------|--------|---------|--------------|----------|
| 100-1500° F | Black | White | None | R3607G |
| 100-1500° F | Black | Red | None | R3607GR |
| 100-1500° F | Chrome | Blue | None | R3707G |
| 100-1500° F | Black | Red | None | R3807GR |
| 100-1500° F | Black | White | Pre-Turbo | R3607T |
| 100-1500° F | Black | Red | Pre-Turbo | R3607TR |
| 100-1500° F | Black | White | Post-Turbo | R3607VW |
| 100-1500° F | Black | Red | Post-Turbo | R3607VWR |
| 100-1800° F | Black | White | None | R3607 |
| 100-1800° F | Black | Red | None | R3607R |
| 100-1800° F | Chrome | Blue | None | R3707 |



Gauge purchase includes signal amplifier and sender (matched set).
Choose lead wire, thermocouple and accessories from the Classic section of this catalog.

EV ELECTRICAL LEVEL GAUGES

FUEL LEVEL



| Resistance Curve (E-F) | Bezel | Pointer | Part No. |
|------------------------|--------|---------|----------|
| 240-33 Ohm | Black | White | R5690 |
| 240-33 Ohm | Black | Red | R6790 |
| 240-33 Ohm 24VDC | Black | White | R5691 |
| 240-33 Ohm 24VDC | Chrome | Blue | R6791 |

WATER LEVEL



| Resistance Curve (E-F) | Bezel | Pointer | Part No. |
|------------------------|--------|---------|----------|
| 240-33 Ohm | Black | White | R5692 |
| 240-33 Ohm | Chrome | Blue | R6792 |

EV ELECTRICAL AMMETERS & VOLTMETERS

AMMETER



| Scale | Bezel | Pointer | Part No. |
|--------------|--------|---------|----------|
| 60-0-60 Amps | Black | White | R5666 |
| 60-0-60 Amps | Chrome | Blue | R6766 |

VOLTMETERS



| Scale | Bezel | Pointer | Part No. |
|-----------|--------|------------|----------|
| 10-16 VDC | Black | White | R5660 |
| 10-16 VDC | Black | Red-orange | R5660R |
| 10-16 VDC | Chrome | Blue | R6760 |
| 10-16 VDC | Black | Red-orange | R6860R |
| 20-32 VDC | Black | White | R5661 |
| 20-32 VDC | Chrome | Blue | R6761 |

EXTENSION HARNESS

| Description | Part No. |
|--|----------|
| 42" harness between gauge head and amplifier box to simplify installation in overhead applications | R7799 |

RA9500 ULTIMATE FUEL SENDERS

For Square/Rectangular Tanks
12/24 VDC

ISSPRO, INC.'s ultimate fuel level sender is the best value sensor on the market today. As one of the most widely used component parts for major OEM's, it is built tough to provide reliable readings. The RA9500 series is available for most fuel tank sizes and in the resistance curves listed below. Any resistance curves, wiring harnesses and connectors are available by custom order. Consult factory at 800-888-8065. Not all part numbers are kept in stock, please call for lead times.

- Senders Must Be Installed Within $\pm 10^\circ$ From Vertical For Best Results
- End Cap Keeps Tube Free of Debris
- Fluids Measured: Gas/Diesel/Biodiesel/Vegetable Oil
Other Fluids which Require Special Coating and Anodized Tube:
E85 Fuel, Hydraulic Oil, Anti Freeze, Non-Potable Water
- Temperature Range: -90°C To 105°C

Ordering information: Find appropriate length of tube or depth of tank. Replace XXX suffix with resistance curve desired. For low profile cap with 8" wire leads, add LP to suffix after XXX specification.

Resistance curves available* (Empty - Full)

| | | |
|---------------|------------|--|
| RA95XX-ISS | 240-33 ohm | — Stock items and pricing |
| RA95XX-AC | 0-90 ohm | |
| RA95XX-FORD | 78-10 ohm |] Non-stock Specialty Item. Call for availability and lead time. |
| RA95XX-EURO** | 10-180 ohm | |
| RA95XX-OAC | 0-30 ohm | |

* Any curve available. ** VDO compatible.

Contact factory at 1-800-888-8065 for custom resistance curves, senders with voltage outputs, and alarm circuits.

| Part Number-XXX | Tube Length | Tank Depth |
|-----------------|-------------|---------------|
| RA9504-XXX | 4" | 4 1/2" - 5" |
| RA9505-XXX | 5" | 5 1/2" - 6" |
| RA9506-XXX | 6" | 6 1/2" - 7" |
| RA9507-XXX | 7" | 7 1/2" - 8" |
| RA9508-XXX | 8" | 8 1/2" - 9" |
| RA9509-XXX | 9" | 9 1/2" - 10" |
| RA9510-XXX | 10" | 10 1/2" - 11" |
| RA9511-XXX | 11" | 11 1/2" - 12" |
| RA9512-XXX | 12" | 12 1/2" - 13" |
| RA9513-XXX | 13" | 13 1/2" - 14" |
| RA9514-XXX | 14" | 14 1/2" - 15" |
| RA9515XXX | 15" | 15 1/2" - 16" |
| RA9516-XXX | 16" | 16 1/2" - 17" |
| RA9517-XXX | 17" | 17 1/2" - 18" |
| RA9518-XXX | 18" | 18 1/2" - 19" |
| RA9519-XXX | 19" | 19 1/2" - 20" |

RA9500 ULTIMATE FUEL SENDERS

For Square/Rectangular Tanks
12/24 VDC

| Part Number-XXX | Tube Length | Tank Depth |
|-----------------|-------------|---------------|
| RA9520-XXX | 20" | 20 1/2" - 21" |
| RA9521-XXX | 21" | 21 1/2" - 22" |
| RA9522-XXX | 22" | 22 1/2" - 23" |
| RA9523-XXX | 23" | 23 1/2" - 24" |
| RA9524-XXX | 24" | 24 1/2" - 25" |
| RA9525-XXX | 25" | 25 1/2" - 26" |
| RA9526-XXX | 26" | 26 1/2" - 27" |
| RA9527-XXX | 27" | 27 1/2" - 28" |
| RA9528-XXX | 28" | 28 1/2" - 29" |
| RA9529XXX | 29" | 29 1/2" - 30" |
| RA9530-XXX | 30" | 30 1/2" - 31" |
| RA9531-XXX | 31" | 31 1/2" - 32" |
| RA9532-XXX | 32" | 32 1/2" - 33" |
| RA9533-XXX | 33" | 33 1/2" - 34" |
| RA9534-XXX | 34" | 34 1/2" - 35" |
| RA9535-XXX | 35" | 35 1/2" - 36" |
| RA9536-XXX | 36" | 36 1/2" - 37" |

Tech Tip

ISSPRO's tube style senders are extremely durable and ideal for rugged applications. When ordering a tube-style sender it is important to know tank depth, resistance curve and tank shape. Tank shape falls into two categories:

- Volumetric (round or saddle)
- Non-volumetric (rectangular and square).

Please contact factory for custom applications.



Standard Profile



Low Profile (potted)



Low Profile



Standard Profile



Standard Profile (potted)

RA9200 ULTIMATE FUEL SENDERS

For Round/Cylindrical/Saddle Tanks 12/24 VDC

ISSPRO, INC.'s RA9200 series is specifically calibrated for the cylindrically shaped tanks most commonly used on Class 8 trucks. These senders are ordered by the diameter of the fuel tank. To order, determine the diameter of the tank and order the appropriate part number.

| Part Number | Fuel Tank Size | |
|-------------|---------------------------|---|
| RA9220-STW | Tank outside diameter 20" | Resistance curve of these senders is 240-33 Ohms. (E-F) |
| RA9222-STW | Tank outside diameter 22" | |
| RA9223-STW | Tank outside diameter 23" | |
| RA9224-STW | Tank outside diameter 24" | |
| RA9225-STW | Tank outside diameter 25" | |
| RA9226-STW | Tank outside diameter 26" | |
| RA9227-STW | Tank outside diameter 27" | |
| RA9228-STW | Tank outside diameter 28" | |
| RA9229-STW | Tank outside diameter 29" | |

FUEL SENDERS

FLOAT ARM FUEL LEVEL SENDERS

For 6, 12, & 24V Systems

Adjustable for Tanks of 6-27" Depth • Left or Right Hand Swing Applications

| Resistance Curve (E-F) | Application | Part No. |
|------------------------|----------------|----------|
| 240-33 Ohm | ISSPRO, STW | R8925 |
| 0 - 90 Ohm | AC, GM | R8926 |
| 78 - 10 Ohm | Ford, Chrysler | R8927 |
| 10 - 180 Ohm | VDO | R89890** |
| Replacement Float | | R8929 |



**Adjustable for Tanks of 6-23"

FUEL LEVEL GAUGES

EMPTY • 1/4 • 1/2 • 3/4 • FULL

12 VDC

Unless Otherwise Noted

FUEL GAUGES

| Resistance Curve (E-F) | Bezel | Part No. |
|---------------------------------|--------|-------------|
| 240 - 33 Ohm | Black | R8690 |
| 240 - 33 Ohm | Chrome | R8790 |
| 240 - 33 Ohm Positive Ground | Black | R8690P |
| 240 - 33 Ohm Positive Ground | Chrome | R8790P |
| 240 - 33 Ohm | Black | R9090 |
| 240 - 33 Ohm | Black | R9090-24VDC |
| 240 - 33 Ohm | Chrome | R9790 |
| 10 - 180 Ohm VDO, Euro | Black | R9190 |
| 10 - 180 Ohm VDO, Euro | Black | R9190-24VDC |
| 0 - 30 Ohm DAC, Old GM | Black | R8691 |
| 0 - 90 Ohm AC, GM | Black | R8692 |
| 0 - 90 Ohm AC, GM | Black | R9290 |
| 78 - 10 Ohm Ford | Black | R8693 |
| 78 - 10 Ohm Ford | Black | R9390 |
| 16 - 158 Ohm Ford | Black | R8694 |
| 103-5 Ohm Toyota | Black | R8695 |

Specialty PRODUCTS & ACCESSORIES

SPECIALTY PRODUCTS

ELECTRONIC SWITCHES

Single Level Speed Switch

12V Part No.

24V Part No.

R4901

NA

Speed switch will trip at preset rpm to control engine function or other control circuitry. Relay outputs can also be used to switch external circuit on or off at trip point. When ordering, specify sensor or ignition input, latched or auto -reset relay, and the desired switch point.



Adjustable Single Level Speed Switch

12V Part No.

24V Part No.

R4901A

R4901A-24VDC

R4901A is field adjustable and designed to be used as an over rev alarm or road speed alarm. When setting is exceeded, a warning device or shutdown is activated. This unit accepts signals from ISSPRO magnetic pickup or signal generator. Set point is adjustable from 100 to 5,000 hertz. R4901A is available in unlatched (auto-reset) version only. When the set point is exceeded, the relay will remain tripped until the signal falls below the set point, when it will reset. Use R4901 factory preset to your specifications for latched applications. R4901A is not compatible with ignition inputs.

Dual Level Speed Switch

12V Part No.

24V Part No.

R4902

R4902-24VDC

R4902 is like R4901A except it has two switch points, one upper and one lower. When ordering, specify the two switch points, sensor or ignition input, latched or auto reset relay.



Single Level Temperature Switch

12V Part No.

24V Part No.

R6327

R6327-24VDC

R6327 is designed to activate a warning when a predetermined exhaust temperature is reached. When ordering, specify type J or K thermocouple and temperature at which you want the device to switch.



Dual Level Temperature Switch

12V Part No.

24V Part No.

R6326

R6326-24VDC

R6326 Gives a two step warning when predetermined exhaust temperatures are reached. When the first switch point is reached, an initial warning signal is activated. When the second temperature switch point is reached, additional warnings or systems are activated. Alarm points must be specified for factory setting.



TURBO TEMPERATURE MONITORS

| Application | Voltage | Shutdown Temp | Part No. |
|----------------|-----------|---------------|--------------|
| Diesel Engines | 12 VDC NG | 300° F | R4130 |
| Diesel Engines | 24 VDC NG | 300° F | R4130-24 VDC |

This monitor can help eliminate early turbocharger failure in diesel applications. When engine ignition turned off, the R4130 idles until a safe exhaust temperature is reached, then automatically shuts down the engine. By shutting down in a cool condition, deposits are reduced and turbo life is increased. Standard shutdown is 300° F. For installation, the existing pyrometer system can be used or order lead wire R660 and a type K thermocouple.



Specialty PRODUCTS & ACCESSORIES

SPECIALTY PRODUCTS

TEMPERATURE SWITCHES (For 6-24V Systems • 1 Amp Switch Capacity)

| Thread | Switch Setting | Terminals | Part No. |
|-----------|----------------|------------|----------|
| 1/4" NPTF | 200° F | 1 STUD | R363D |
| 1/4" NPTF | 200° F | Two Blades | R363D-03 |
| 3/8" NPTF | 200° F | 1 STUD | R363E |
| 1/2" NPTF | 200° F | 1 STUD | R363F |
| 1/2" NPTF | 212° F | 1 STUD | R363B |
| 1/2" NPTF | 225° F | 1 STUD | R363G |
| 1/4" NPTF | 225° F | 1 STUD | R363AM |
| 1/4" NPTF | 250° F | 1 STUD | R363A |
| 1/2" NPTF | 250° F | 1 STUD | R363W |

PRESSURE SWITCHES (All have 1/8" NPTF Thread)

| Type | Switch Setting | Terminals | Capacity | Part No. |
|-----------|----------------|-------------------|--------------|----------|
| N/O, HD | 4 PSI | Two 1/4" Blades | 6A • 6-24VDC | R4006-4 |
| N/C, HD | 4 PSI | Two 1/4" Blades | 6A • 6-24VDC | R4007-4 |
| N/C & N/O | 4 PSI | Three 1/4" Blades | 6A • 6-24VDC | R4012-4 |
| N/O | 4 PSI | 1 Stud | 6A • 6-24VDC | R7504 |
| N/C | 6 PSI | 1 Stud | 3A • 6-24VDC | R364L |
| N/C, HD | 8 PSI | Two 1/4" Blades | 6A • 6-24VDC | R4009-8 |
| N/C | 8 PSI | 1 Stud | 6A • 6-24VDC | R7508 |
| N/C | 15 PSI | 1 Stud | 3A • 6-24VDC | R364K |
| N/O, HD | 15 PSI | Two 1/4" Blades | 6A • 6-24VDC | R4008-15 |
| N/C, HD | 15 PSI | Two 1/4" Blades | 6A • 6-24VDC | R4009-15 |
| N/O, HD | 60PSI | Two 1/4" Blades | 6A • 6-24VDC | R4010-60 |
| N/C, HD | 60 PSI | Two 1/4" Blades | 6A • 6-24VDC | R4011-60 |

Specialty PRODUCTS & ACCESSORIES

SOLID STATE LOW COOLANT ALARMS

| Voltage | Relay Current | Kit Contents | Kit Part No. |
|---|--|------------------------------|--------------|
| 12 VDC | 20 Amp (Normally Open) 10 Amp (Normally Closed) | Probe, Warning Light, Buzzer | R4290 |
| Low Coolant Alarm Module Only for R4290 | | | R4291 |
| 24 VDC | 20 Amp (Normally Open) 10 Amp (Normally Closed) | Probe, Warning Light, Buzzer | R4290-24VDC |
| Low Coolant Alarm Module Only for R4290-24VDC | | | R4291-24VDC |

Plastic radiators require two probes. Contact factory for isolated coolant level probe. Solid state low water alarm uses AC to detect low coolant conditions. This eliminates potential plating problems. High current relay 20A (NO), 10A (NC) relay will handle most shutdown or alarm circuits.

WATER LEVEL PROBES

| | |
|---|--------------|
| Sensor • 2.36" extension beyond threads | R1220L |
| Sensor • 1.36" extension beyond threads | R1220S |
| Sensor • Isolated Ground | R1220-IS0 |
| Plug and Wire Assembly | R1220-IS0-PL |

ENGINE SHUTDOWN KITS Made in the U.S.A.

R4020 Engine Shutdown Protection Kit
For use in mobile applications (trucking, automotive). Solid state engine protection module with 20A(NO) or 10A(NC) contacts to handle heavy switch loads. The kit includes a 12 VDC R4022 shutdown module (15 second delay for engine starting and 30 second delay before the shutdown after alarm), low coolant probe, low oil pressure switch (7-9 PSI), high engine temperature switch (225°F), warning light and buzzer. Contact ISSPRO, INC. for isolated coolant level probe. For 24 volt order, R4020-24VDC.

R4021 Engine Shutdown Protection Kit
For use in stationary engines. Solid state engine protection module with 20A(NO) or 10A(NC) contacts to handle heavy switch loads. The kit includes a 12 VDC R4023 shutdown module (30 second delay to allow engine starting, then immediate shutdown with alarm), low coolant probe, low oil pressure switch (7-9 PSI), high engine temperature switch (225°F), warning light and buzzer. Specifications are the same as R4020 shutdown kit but for use in stationary engine applications (immediate shutdown after alarm). For 24 volt order R4021-24VDC.

R4022 Engine Shutdown Protection Control Module only.
(for R4020 kit)

For 24 Volt Application

R4023 Engine Shutdown/Protection Control Module for use
in stationary engine applications (generator, pump).

For 24 Volt Application



SPECIALTY PRODUCTS

Specialty PRODUCTS & ACCESSORIES

GAUGE MOUNTING ACCESSORIES

Mounting Brackets

| Black | Chrome | No. of Gauges | Gauge Diameter |
|-------|--------|---------------|----------------|
| R7610 | R7611 | 1 | 2 1/16" |
| R7620 | R7621 | 2 | 2 1/16" |
| R7630 | R7631 | 3 | 2 1/16" |
| R7608 | N/A | 1 | 3" |
| R7680 | R7681 | 1 | 3 3/8" |

Mounting Cups

| Black | Chrome | Size | Description |
|----------|--------|-----------|---------------------------|
| R7602 | R7602C | 2 1/16" | For Gauges |
| R7602-05 | N/A | 2 1/16" | For Gauges - Plastic Case |
| R7603 | R7603C | 3" | For Pyrometers |
| R7601B | R7601C | 3 3/8" | For Speedos and Tachs |
| R7605B | 7605C | 5" | For Speedos and Tachs |
| R7615 | N/A | 5"-5 1/2" | Adapter Plate |

HEAVY DUTY FULL SWEEP VOLTMETERS & AMMETERS

| Type | Scale | Part No. |
|---------------|-----------|----------|
| Voltmeter | 7-18 VDC | R8802 |
| Ammeter/Shunt | 100-0-100 | R8808 |
| Ammeter/Shunt | 150-0-150 | R8810 |
| Ammeter/Shunt | 200-0-200 | R8812 |
| Ammeter/Shunt | 300-0-300 | R8814 |



Shunt (Typical)

Specialty PRODUCTS & ACCESSORIES

RELAYS, BUZZERS & WARNING LIGHTS

| Description | Part No. |
|---|-------------|
| 12 VDC NG NC Relay 20 Amp with Connector | R7021 |
| 12 VDC NG Buzzer | R7060 |
| 12-24 VDC NG Buzzer with Steady Tone | R7064 |
| 12-24 VDC NG Buzzer with Pulse Tone | R7066 |
| 12-24 VDC NG • 103 dBA Buzzer | R7074 |
| 12 VDC NG Buzzer and Light | R7085 |
| 24 VDC NG Buzzer and Light | R7085-24VDC |
| Red Warning Light for 3/4" Diameter Cut Out | R7051 |
| Red Warning Light Marked "LOW WTR" for 3/4" Diameter Cutout | R7056 |

HOURLMETERS

| Description | Voltage | Bezel | Part No. |
|---|-----------|-----------|----------|
| 2 1/16" Diameter Hourmeter with Snap On Clamp | 4-40 VDC | Black | R8861 |
| 2 1/16" Diameter Hourmeter with Snap On Clamp | 10-80 VDC | Black | R8861HV |
| 2 1/16" Diameter Hourmeter with Snap On Clamp | 4-40 VDC | Stainless | R8862 |
| 2 1/16" Diameter Hourmeter with Snap On Clamp | 10-80 VDC | Stainless | R8862HV |
| 3 Screw SAE Mount Hourmeter | 4-40 VDC | Black | R8863 |
| 3 Screw SAE Mount Hourmeter | 10-80 VDC | Black | R8863HV |
| Rectangular Mini Meter with 1.39" X 1.25" Viewing Area | 10-80 VDC | Black | R8864HV |
| 2 1/16" Digital Hourmeter with Clamp Mount | 9-60 VDC | Black | R8865* |
| Rectangular Digital MiniMeter with 1.07 X .89" Viewing Area | 12-48 VDC | Black | R8866* |

*Solid State Memory Retains Reading when Voltage is Removed.

VOLTAGE REDUCERS

| Application | Part No. |
|-------------------------|----------|
| FOR 24-12 VDC NG GAUGES | R7934 |
| FOR 32-12 VDC NG GAUGES | R7936 |

For use on R8600, R8700, R9000, and R9700 Series Gauges Only.

One voltage reducer is required for each gauge. Voltage reducers are not designed for light bulb applications.

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