



Standard
PRODUCT CATALOG

GAUGES
&
SENSORS

for
VEHICULAR
INDUSTRIAL
& MARINE
APPLICATIONS

Table of Contents

	PAGE
EV²	
EV ² Introduction	1
EV ² Pressure Gauges	2-7
EV ² Temperature Gauges	8-9
EV ² Pyrometers	10
EV ² Fuel Level Gauges	11
EV ² Voltmeters	11
EV ² Programmable Speedometers	11
EV ² Programmable Tachs	12
Programmable Output Driver	13
EV ² Accessories	13-14
Classic	
Classic Introduction	15
Classic Pyrometers, Thermocouples, Lead Wires & Accessories	
Classic Pyrometers	16-17
Classic Digital Pyrometers	17
Classic Type K Thermocouples	18
Classic Thermocouple Accessories	18
Classic Lead Wires	19
Classic Pyrometer Tester	19
Classic Turbocator	19
Classic Low Temperature Pyrometers, Thermocouples, and Lead Wires	20
Classic Speedometers	
Classic Mechanical Speedometers	21
Classic Programmable Speedometers	22-23
Classic Tachometers	
Classic Mechanical Tachs	24
Classic Electronic Tachs for Diesel Engines	25
Digital Hand Held Tachs	25
Pulse Distribution Module	25
Alternator & Ignition Tachs	26
Classic Programmable Tachs	27
Classic Speedometer and Tach Accessories	
Magnetic Sensors	28
Signal Generators	28
Drive Tips	28
Interconnect Harnesses	28
Classic Mechanical Gauges	
Classic Mechanical Pressure Vacuum/Turbo Boost Gauges	29-31
Classic Mechanical Vacuum Gauges	32
Classic Mechanical Temperature Gauges	33-34
Classic Panels	34
Classic Electrical Gauges	
Classic Electrical Pressure Gauges	35-36
Classic Electrical Pressure Senders	36
Classic Electrical Sensor Accessories	37
Classic Electrical Temperature Gauges	38-39
Classic Electrical Temperature Senders	40
Classic Electrical Ammeters and Voltmeters	41-42
EV	
EV Introduction	43
EV Speedometers	44
EV Tachometers	45-46
EV Mechanical Gauges	
EV Mechanical Vacuum, Vacuum Turbo/Boost Pressure Gauges	47-49
EV Mechanical Temperature Gauges	50
EV Electrical Gauges	
EV Electrical Pressure Gauges	51
EV Electrical Temperature Gauges	51-52
EV Electrical Air Core Pyrometers	53
EV Electrical Fuel and Water Level Gauges	54
EV Electrical Ammeters and Voltmeters	54
Fuel Senders	55-57
Fuel Level Gauges	58
Specialty Products and Accessories	
Electronic Speed & Exhaust Temperature Switches	59
Turbo Temperature Monitors	59
Temperature and Pressure Switches	60
Engine Shutdowns	61
Water Level Probes	61
Low Coolant Alarms	61
Gauge Mounting Accessories	62
Heavy Duty Ammeters & Voltmeters	62
Hourmeters	63
Voltage Reducers	63
Relays, Alarms and Warning Lights	63
Index by Product Type	64
Index by Part Number	65-66

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



EV²

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

See Accessories for options.

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	
	Sensor	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
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	
Hall Effect	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	
	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	
	Sensor	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
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	
Hall Effect	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	
	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

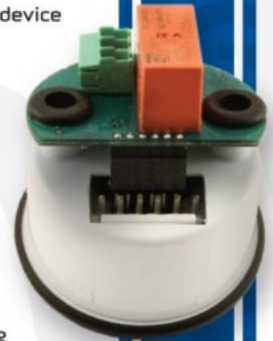
The R82006 Programmable Output Driver allows you to control an external device using any ISSPRO EV² gauge. It functions as an electronic switch gauge.

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



CLASSIC

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 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

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

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.



CLASSIC

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

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
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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 HARNESES

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?

ISSPRO

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 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



CLASSIC

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 VDO Senders)
120-300° F 50-150° C	Black	Red-orange Tip	R9154-24 VDC	TG (Page 40) (Compatible with VDO 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

CLASSIC

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.

CLASSIC

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.

EV

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 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')



CONTACT FACTORY FOR CUSTOM LENGTH TUBING KITS.

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 For Square/Rectangular Tanks

FUEL SENDERS 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

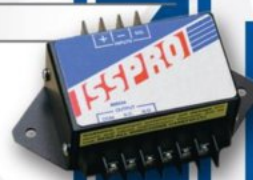
12V Part No.

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 & 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.

SPECIALTY PRODUCTS

Index by Product Type

PRODUCT	PAGE	PRODUCT	PAGE
Accessories	13, 14, 37, 62	Oil Temperature Gauges, Electric	9, 38, 52
Adapter Fittings	14, 37	Oil Temperature Gauges, Mechanical	33, 50
Adapter Nuts	14, 37	Pressure Senders, Classic, EV ²	36
Air Cleaner Restriction Gauges, Mechanical	29	Pressure Sensors, EV ²	14
Air Pressure Gauges, Electric	2, 35	Pressure Switches	60
Air Pressure Gauges, Mechanical	29, 47	Pressure Tubing Kits	29, 30, 31, 47, 48, 49
Air Temperature Gauges	8	Programmable Output Driver	13
Ammeters	41, 54, 62	Pyrometer Tester	19
Axle Load Gauges, Mechanical	29	Pyrometers	10, 16, 17, 20, 53
Axle Load Gauges, Electric	2	Rear Axle Temperature Gauges, Electric	9
Banjo Bolt	14, 37	Relays	63
Boost Bolt	14, 37	Reservoir Pressure Gauges, Electrical	7
Brake Application Gauges, Electric	2	Signal Generators	28
Buzzers	63	Snubbers	14, 37
Clipsense Temperature Sensor Mount	13	Speedometers, Mechanical	21
Coolant Pressure Gauges, Electric	2	Speedometers, Programmable	11, 22, 23, 44
Coolant Temperature Gauges, Electric	8	Stainless Steel Hose, Braided	14
Drive Oil Pressure Gauges, Mechanical	30, 47	Tachometer, Hand Held	25
Drive Oil Pressure Gauges, Electric	2	Tachometers, For Fixed 2 Pulses/Rev	25, 46
Drive Tips	28	Tachometers, Ignition, Alternator	12, 26, 45
Dual Air Pressure Gauges, Mechanical	29, 47	Tachometers, Mechanical	24, 45
Electronic Switches, Speed & Temperature	59	Tachometers, Programmable	12, 27, 45
Engine Shutdowns	61	Temperature Gauges, Electric	38
Exhaust Back Pressure Gauges, Electric	4, 5	Temperature Senders	40
Front Axle Temperature Gauges, Electric	8	Temperature Sensor, EV ²	14
Fuel Level Gauges, Electric	11, 54, 58	Temperature Switches	60
Fuel Level Senders	55, 56, 57	Thermocouples	18, 20
Fuel Pressure Gauges, Electric	6, 35	Transmission Oil Pressure Gauges, Electric	7, 36
Fuel Pressure Gauges, Mechanical	30, 47	Transmission Oil Temperature Gauges, Electric	9, 39, 52
Fuel Rail Pressure Gauges, Electric	5	Turbo Temperature Monitors	59
Fuel Temperature Gauges, Electric	8	Turbo Boost Gauges, Mechanical	31, 48, 49
Gauge Mounting Brackets & Cups	62	Turbo Boost Gauges, Electric	3, 4
Gauge Panels, 3 Gauge Mechanical	34	Turbocator	19
Hourmeters	63	Vacuum Gauges, Mechanical	31, 32, 49
HPOP Pressure Gauges, Electric	7	Vacuum Tubing Kits	31, 32, 49
Hydraulic Oil Temperature Gauges, Electric	8	Voltage Reducers	63
Lead Wires, Pyrometer	19, 20	Voltmeters	11, 42, 54, 62
Low Coolant Alarms	61	Warning Lights	63
Magnetic Sensors	28	Water Level Probes	61
Manifold Pressure Gauges, Mechanical	30, 48	Water Temperature Gauges, Electric	2, 39, 51
Mounting Bracket, EV ²	14	Water Temperature Gauges, Mechanical	33, 34, 50
Needle Valves	14, 37	Wire Insertion Tool, EV ²	14
Oil Pressure Gauges, Electric	7, 35, 51	Wiring Harnesses, EV ²	14
Oil Pressure Gauges, Mechanical	31, 48		

Index by Part Number

PART No.	PAGE	PART No.	PAGE	PART No.	PAGE	PART No.	PAGE	PART No.	PAGE
R363 Series	60	R5503	46	R6535M	45	R7036	28	R8460 Series	22
R364K	60	R5510	45	R6585	18	R7038	28	R8470	22
R364L	60	R5535M	45	R6591	46	R7040	28	R8471	22
R600	19	R5591	46	R6597	45	R7051	63	R8474	22
R602 Series	16	R5597	45	R6700	48	R7056	63	R8475	22
R604 Series	17	R5600	48	R6701	48	R7060	63	R8476	22
R605 Series	16	R5601	48	R6704	47	R7064	63	R8477	22
R606 Series	17	R5604 Series	47	R6705	47	R7066	63	R8478	22
R607 Series	16	R5605 Series	47	R6706	47	R7074	63	R8479	22
R609 Series	19	R5606	47	R6707	47	R7085	63	R8480 Series	22, 23
R610	17	R5607 Series	47	R6708	47	R7110	29	R8481	22
R611	16	R5608	47	R6709	47	R7110-10	29	R8482 Series	23
R614	20	R5609	47	R6710	48	R7111	32	R8490	21
R616	20	R5609R	47	R6711	48	R7172	29	R8491	21
R630 Series	17	R5610 Series	48	R6713	48	R7504	60	R8492	21
R650 Series	18	R5611 Series	48	R6720	51	R7508	60	R8493	21
R653	20	R5613 Series	48	R6721	51	R7601	62	R8494	21
R654	20	R5620	51	R6722	51	R7602	62	R8495	21
R658 Series	18	R5621 Series	51	R6723	49	R7603	62	R8496	21
R660 Series	19	R5622	51	R6730	50	R7605	62	R8498	21
R680	18	R5623 Series	49	R6731	50	R7608	62	R8499	21
R681	18	R5630	50	R6732	50	R7610	62	R8501	25
R682	18	R5631	50	R6733	49	R7611	62	R8503	25
R683	18	R5632	50	R6734	50	R7615	62	R8504	25
R684	18	R5634	50	R6735	50	R7620	62	R8508	26
R685	18	R5635	50	R6736	50	R7621	62	R8509	26
R1220L	61	R5636	50	R6743	49	R7630	62	R8510	26
R1220S	61	R5643R	49	R6750	51	R7631	62	R8529M	27
R1220-ISO	61	R5650 Series	51	R6751	51	R7680	62	R8530M	27
R1220-ISO-PL	61	R5651	51	R6753	48	R7681	62	R8531M	27
R1620D	25	R5653	48	R6754	52	R7741	14, 37	R8540M	27
R3607 Series	53	R5653R	48	R6755	52	R7742	14, 37	R8540MR	27
R3707 Series	53	R5654 Series	52	R6756	52	R7743	14, 37	R8550 Series	24
R3807GR	53	R5655	52	R6757	52	R7798	14, 37	R8556 Series	24
R4006-4	60	R5656 Series	52	R6758	51	R7799	54	R8580M	27
R4007-4	60	R5657	51	R6759	52	R7800	14, 37	R8581M	27
R4008-15	60	R5658 Series	51	R6760	54	R7850	33	R8584M	27
R4009-8	60	R5659 Series	52	R6761	54	R7851	33	R8585M	27
R4009-15	60	R5660 Series	54	R6766	54	R7852	33	R8586M	27
R4010-60	60	R5661	54	R6775	49	R7934	63	R8588M	27
R4011-60	60	R5666	54	R6790	54	R7936	63	R8591	25
R4012-4	60	R5675	49	R6791	54	R7962	14, 37	R8596 Series	24
R4020	61	R5690	54	R6792	54	R7966	37	R8597 Series	24
R4021	61	R5691	54	R6804R	47	R7969	37	R8598	24
R4022	61	R5692	54	R6807R	47	R7980	18	R8599	24
R4023	61	R5870	49	R6809R	47	R8125 Series	36	R8600	31
R4130	59	R6326	59	R6813R	48	R8401 Series	23	R8601	31
R4605	25	R6327	59	R6823R	49	R8410M Series	23	R8602	31
R4901	58	R6482M	44	R6853R	48	R8412M	23	R8603	31
R4902	58	R6483M	44	R6859R	52	R8416	23	R8603R	31
R4920	61	R6501	46	R6860R	54	R8418	23	R8605	29
R4921	61	R6503	46	R6871	49	R8430	21	R8606	29
R5482M	44	R6504	46	R7021	63	R8440	21	R8607	30
R5483M	44	R6510	45	R7032	28	R8441	21	R8608	30
R5501	46	R6514	20	R7034	28	R8450 Series	22		

Continued on the next page...

Index by Part Number

PART No.	PAGE	PART No.	PAGE	PART No.	PAGE	PART No.	PAGE	PART No.	PAGE
R8610	30	R8730	33	R8919	36	R9030	33	R11033	6
R8611	30	R8731	34	R8919-03	36	R9031	34	R11044	6
R8611R	30	R8732	33	R8920	40	R9032	34	R11055	6
R8620	35	R8733	34	R8920-03	40	R9033	34	R11066	6
R8621	35	R8734	33	R8922	40	R9034	33	R11077	6
R8623	35	R8735	33	R8923	40	R9036	33	R11088	2
R8624	35	R8736	33	R8923-03	40	R9037	34	R11091	10
R8630	33	R8737	34	R8925	56	R9042	33	R11092	10
R8631	34	R8738	34	R8926	56	R9050 Series	39	R11100	4
R8632	33	R8739	34	R8927	56	R9054 Series	38	R11122	4
R8633	34	R8742	33	R8929	57	R9055 Series	39	R11133	3
R8634	33	R8750	39	R8930	28	R9058 Series	38	R11144	5
R8635	33	R8754	38	R8931	28	R9060	42	R11155	5
R8636	33	R8758	38	R8932	28	R9061	42	R11166	5
R8642	33	R8760	42	R8933	28	R9066	41	R11211	7
R8650	39	R8761	42	R8935	28	R9067	41	R11222	8
R8654 Series	38	R8762	42	R8936	28	R9068	41	R11233	3
R8655R	39	R8765	41	R8937	28	R9075	32	R11240	2
R8658	38	R8766	41	R8938	28	R9090	58	R11241	2
R8660	42	R8767	41	R8939	28	R9120 Series	35	R11244	7
R8661	42	R8768	41	R8941	28	R9123 Series	35	R11255	7
R8662	42	R8770R	29	R8953	40	R9125 Series	36	R11266	2
R8665	41	R8775	32	R8954	40	R9150 Series	39	R11277	4
R8666	41	R8780	34	R8955	40	R9154 Series	38	R11288	5
R8667	41	R8790	58	R8956	40	R9190	58	R11289	5
R8668	41	R8802	62	R8957	40	R9290	58	R11333	3
R8670R	29	R8808	62	R8958	40	R9390	58	R11377	4
R8675	32	R8810	62	R8959	40	R9701	31	R11433	3
R8675R	32	R8812	62	R8959-03	40	R9705	29	R11477	4
R8680	34	R8814	62	R8960	40	R9708	30	R11504	8
R8690	58	R8820	29	R8961	40	R9720	35	R11511	9
R8691	58	R8821	29	R8962	40	R9721	35	R11514	8
R8692	58	R8861	63	R8963	40	R9729	35	R11522	8
R8693	58	R8861HV	63	R8970	28	R9730	33	R11524	9
R8694	58	R8862	63	R8971	28	R9731	34	R11533	9
R8695	58	R8862HV	63	R8972	28	R9732	34	R11534	9
R8700	31	R8863	63	R8973	28	R9734	33	R11544	9
R8701	31	R8863HV	63	R8974	28	R9736	33	R11566	9
R8702	31	R8864HV	63	R8975	28	R9742	33	R11577	8
R8703	31	R8865	63	R8976	28	R9750	39	R11588	8
R8705	29	R8866	63	R8977	28	R9754	37	R11599	9
R8706	29	R8870	31	R8978	28	R9755	39	R11600	11
R8707	30	R8871	31	R8979	28	R9758	39	R11601	11
R8708	30	R8900	25	R8992	40	R9760	42	R11602	11
R8709	30	R8901	25	R8993	40	R9761	42	R11633	3
R8710	30	R8906	25	R8995	40	R9766	41	R11700	11
R8711	30	R8911	25	R9000	31	R9767	41	R11701	11
R8712	31	R8912	25	R9001	31	R9768	41	R11733	3
R8714	30	R8912-92	25	R9002	31	R9775	32	R11801	12
R8717	30	R8916	36	R9005	29	R9790	58	R11802	12
R8720	35	R8916-02	36	R9006	29	R11011	6	R11805	12
R8721	35	R8916-03	36	R9008	30	R11021	10	R11807	12
R8723	35	R8917	36	R9020	35	R11022	10	R11808	12
R8724	35	R8917-02	36	R9021 Series	35	R11031	10	R11811	12
		R8917-03	36	R9029	35	R11032	10	R11812	12

Continued on the next page...

Index by Part Number

PART No.	PAGE	PART No.	PAGE	PART No.	PAGE	PART No.	PAGE	PART No.	PAGE
R11815	12	R12433	3	R13033	6	R13822	12	R85225	26
R11817	12	R12477	4	R13044	6	R13825	12	R85230	26
R11818	12	R12504	8	R13055	6	R13827	12	R85235	26
R11820	2	R12514	8	R13066	6	R13828	12	R85240	26
R11821	12	R12522	8	R13077	6	R13831	12	R85245	26
R11822	12	R12524	9	R13088	2	R13832	12	R85295M	27
R11825	12	R12533	9	R13091	10	R13835	12	R85305M	27
R11827	12	R12534	9	R13092	10	R13837	12	R85305MC	27
R11828	12	R12544	9	R13100	4	R13838	12	R85305MC-SET	27
R11830	2	R12566	9	R13122	4	R13841	12	R85315M	27
R11831	12	R12577	8	R13133	3	R13842	12	R85505 Series	24
R11832	12	R12588	8	R13144	5	R13845	12	R85600M	27
R11835	12	R12599	9	R13155	5	R13900	11	R85805M	27
R11837	12	R12600	11	R13166	5	R13901	11	R85815M	27
R11838	12	R12601	11	R13211	7	R19999	14	R85845M	27
R11841	12	R12602	11	R13222	8	R55100	44	R85855M	27
R11842	12	R12633	3	R13233	3	R55111	45	R85865M	27
R11845	12	R12700	11	R13240	2	R55120	45	R85981	24
R11846	7	R12701	11	R13241	2	R65100	45	R85985	24
R11847	7	R12733	3	R13244	7	R65110	45	R85991	24
R11848	8	R12801	12	R13255	7	R72014	14	R85995	24
R11900	11	R12802	12	R13266	2	R72015	14	R89140	14
R11901	11	R12805	12	R13277	4	R72016	14	R89141	14
R12011	6	R12807	12	R13288	5	R72017	14	R89142	14
R12021	10	R12808	12	R13289	5	R72018	14	R89145	14
R12022	10	R12811	12	R13333	3	R72021	14	R89146	14
R12031	10	R12812	12	R13377	4	R72022	14	R89805	36
R12032	10	R12815	12	R13433	3	R72023	14	R89810	36
R12033	6	R12817	12	R13477	4	R78823	14	R89825	36
R12044	6	R12818	12	R13511	9	R78824-3	14	R89850	40
R12055	6	R12820	2	R13522	8	R78824-6	14	R89870	40
R12066	6	R12821	12	R13533	9	R78824-8	14	R89890	57
R12077	6	R12822	12	R13544	9	R78844	14	R89966	14
R12088	2	R12825	12	R13566	9	R78855	14	RA9220	57
R12091	10	R12827	12	R13577	8	R78877	14	RA9222	57
R12092	10	R12828	12	R13588	8	R78888	14	RA9223	57
R12100	4	R12830	2	R13599	9	R82003	14	RA9224	57
R12122	4	R12831	12	R13600	11	R82004	13	RA9225	57
R12133	3	R12832	12	R13601	11	R82006	13	RA9226	57
R12144	5	R12835	12	R13602	11	R85070	26	RA9227	57
R12155	5	R12837	12	R13633	3	R85075	26	RA9228	57
R12166	5	R12838	12	R13700	11	R85080	26	RA9229	57
R12211	7	R12841	12	R13701	11	R85085	26	RA9504-RA9519	55
R12222	8	R12842	12	R13733	3	R85090	26	RA9520-RA9536	56
R12233	3	R12845	12	R13801	12	R85095	26	RTH88	24
R12240	2	R12846	7	R13802	12	R85100	26	RTH89	24
R12241	2	R12847	7	R13805	12	R85105	26	RTH91	24
R12244	7	R12848	8	R13807	12	R85110	26	RTH92	24
R12255	7	R12900	11	R13808	12	R85115	26		
R12266	2	R12901	11	R13811	12	R85200	26		
R12277	4	R13011	6	R13812	12	R85205	26		
R12288	5	R13021	10	R13815	12	R85210	26		
R12289	5	R13022	10	R13817	12	R85215	26		
R12333	3	R13031	10	R13818	12	R85220	26		
R12377	4	R13032	10	R13821	12	R85220R	26		



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