

METRES, GAUGES & SENDERS



D.C HOUR METERS
D.C VOLT METERS
AMPERE METERS
TACHOMETERS
GAUGES
SENDERS

The 85000 Series provides performance and reliability in a technically advanced package. The Quartz Plus Features a highly reliable drive mechanism, an improved odometer gear train, and a snap-together integrated chassis. The chassis fits into a shockproof, totally-sealed case made of an engineered plastic that is impervious to acids and solvents. To ensure our high standard of quality, all parts are in-process inspected. Every Quartz Plus meter must pass 100% function, burn-in, and timing accuracy test before shipping.

Specifications:

- 10.000 hour version standard, with automatic recycle to zero
- Temperature range: -40° F to 185° F-40° C to + 85° C
- Quartz accuracy: ±2000ppm, ±0.02% (entire voltage and temperature range)
- Operating voltage range: 5-110 VDC (Voltage range covered by 85000 Series line)
- Precision built relay driven odometer
- Excellent vibration & shock resistance:
 - Vibration: 20 g's @ 10-80Hz (SAE J1378)
 - 10 g's (per MIL-M-3971)
 - Shock: 55 g's @ 9-13msec (SAE J1378)
 - 75 g's (per MIL-M-3971)
- Transient Voltage Protection
- Alternator load dump: 150V EMI (Electromagnetic Interference) : +400V @500Hz
- Inductive switching and reverse polarity
- Standard terminals: ¼" male blade
- Lens material: Glass
- Case material: Polyster
- Number size: 0.12" (3mm)

Features:

- Custom CMOS integrated circuit
- Indicates operating time in hours and tenths, plus has a running indicator
- Totally-sealed
- Battery system voltages: 6,12, 24, 36, 48,60, 72 and 80 VDC



2 Screw

Part No.	Operating Voltage	Dimensions
912012	6.5 - 16 VDC	52 x 26 x 50mm
912013	10 - 32 VDC	52 x 26 x 50mm
912014	10 - 80 VDC	52 x 26 x 50mm
912015	30 - 110 VDC	52 x 26 x 50mm



Rectangular Stirrup

Part No.	Operating Voltage
912016	10 - 32 VDC
912017	30 - 110 VDC



3 Screw

Part No.	Operating Voltage.	Dia.	Dimension.
912018	10 - 32 VDC	56mm	73mm
912019	10 - 80 VDC	56mm	73mm
912020	10 - 110 VDC	56mm	73mm



Round Chrome

Part No.	Operating Voltage.	Termination.
912021	9 - 64 VDC	2 Terminal
912022	9 - 64 VDC	3 Terminal with Enable
912023	9 - 64 VDC	4 Terminal with Enable



Round Black Bezel

Part No.	Operating Voltage.	Termination.
912024	10 - 32 VDC	2 Terminal
912025	10 - 32 VDC	3 Terminal with Enable
912026	10 - 32 VDC	4 Terminal with Enable



P/no 913010



P/no 913011

Round Chrome Bezel

A system voltage meter for monitoring battery condition in either 12 or 24 Volt DC applications. Ideal for checking charging voltages from various supplies and testing battery banks before switching from one supply to another.

Part No.	Range.	Voltage.	Size.
913010	8 - 16 Volts	12 VDC	52mm
913011	16 - 32 Volts	24 VDC	52mm

AMPERE METERS



Ampere Meters

A system voltage meter for measuring charge and discharge of both supplies and loads. Suitable for direct connection in light duty applications. Also available upon request is a heavy duty shunt operated version. This type uses an external shunt which can be remote mounted this eliminating the need for heavy cable runs. Suitable for dual voltage connection

Part No.	Range.	Voltage.	Size.
914010	8 - 16 Volts	12 VDC	52mm

TACHOMETERS



Inductive Tachometers

A practical rang of RPM indicators for most diesel engine applications. Designed to operate from a magnetic pick-up or inductive sender, which detects the ring-gear teeth on the flywheel. These units provide user adjustable calibration and have a wide input signal band. A range of RPM scale is available and all models feature dual voltage connection

Part No.	Range.	Voltage.	Size.
912517	0 - 3000 RPM	12/24 VDC	85mm



Generator Tachometers

A practical range diesel RPM indicators with the added benefit of an integrated hour meter. Designed for connection to an AC type generator sensor commonly fitted to a mechanical drive output on an engine. These units provide user adjustable calibration and have a wide input signal band. A range of RPM scales is available and all models feature dual voltage connection.

Part No.	Range.	Voltage.	Size.
913510	0 - 2500 RPM	12/24 VDC	85mm
913511	0 - 3000 RPM	12/24 VDC	85mm
913512	0 - 3500 RPM	12/24 VDC	85mm



Inductive Tachometers

A practical range diesel engine RPM indicators with the added benefit of an integrated hour meter. Designed to operate from a magnetic pick-up or inductive sender, which detects the ring-gear teeth on the flywheel. These units provide user adjustable calibration and have a wide input signal band. A range of RPM scales is available and all models feature dual voltage connection.

Part No.	Range.	Voltage.	Size.
913516	0 - 3000 RPM	12/24 VDC	85mm

GAUGES



Mechanical Pressure Gauges

A popular range of mechanical bourdon tube style pressure gauges. Ideal for a range of applications including engine and gear lube oil pressure, fuel, turbo and air pressure requirements. Entry is via an industry standard male connector. Pressure tubing kits are also available for direct fitment to this range.

Part No.	Range.	Thread.	Diameter
914532	0 - 200 kPa	1/8°-27 NPTF	52mm
914533	0 - 700 kPa	1/8°-27 NPTF	52mm
914534	0 - 1000 kPa	1/8°-27 NPTF	52mm



Mechanical Pressure Gauges

10 -180 OHMS

A popular range of mechanical bourdon tube style pressure gauges. Ideal for a range of applications including engine and gear lube oil pressure, fuel, turbo and air pressure requirements. Entry is via an industry standard male connector. Pressure tubing kits are also available for direct fitment to this range.

Part No.	Range.	Voltage.	Diameter
914535	E-1/4-2/4-3/4-F	12 VDC	52mm



Heavy Duty Temperature Senders

A range of earth return (grounded) senders for connection to temperature gauges. Available in an industry standard thread size for installation with the appropriate adaptor bush. Solid brass construction is designed for most temperature mediums and units are suitable for dual voltage connection

287 - 23 OHMS

Part No.	Range.	Voltage	Thread.
915515	41 - 120°C	12 VDC	Slotted

323 - 18 OHMS

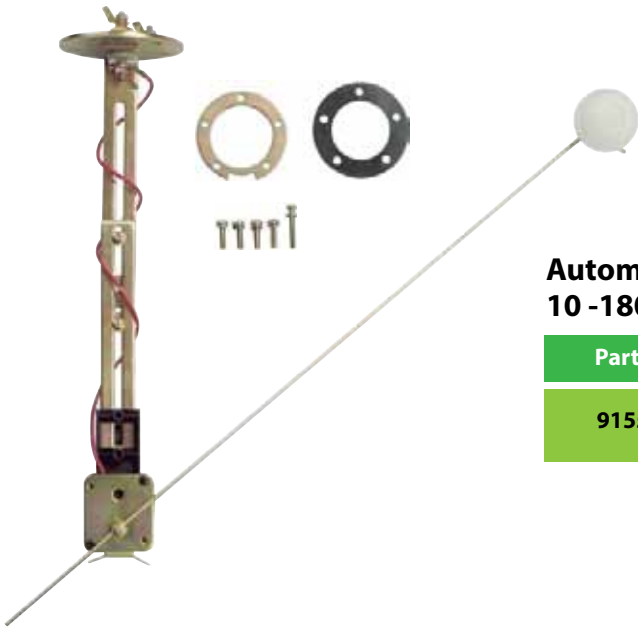
Part No.	Range.	Voltage	Thread.
915516	50 - 150°C	12/24 VDC	1/8"-27NPTF



Automotive Level Sender - Tubular

A simple and innovative range of liquid level senders for connection to fuel level gauges. Available in a multitude of stock lengths and suitable for petrol, diesel and fuel oil tanks. Manufactured from non-corrosive materials. Isolated earth return (ungrounded) for electrical safety.

Part No.	Tank Depth	Resistance.	Mounting G Type.
915517	150mm	0-190 Ohms	Threaded 1 ¼ BSP
915518	200mm		
915519	250mm		
915520	300mm		
915521	350mm		
915522	400mm		
915523	450mm		
915524	500mm		
915525	550mm		
915526	600mm		
915527	650mm		
915528	700mm		
915529	750mm		
915530	800mm		
915531	900mm		
915532	1000mm		
915533	1100mm		
915534	1200mm		



**Automotive Level Senders
10 -180 OHMS**

Part No.	Tank Depth.	Resistance.	Mounting Type.
915535	175 - 185mm	10-180 Ohms	5 hole SAE Flange



P/no 915536

Level Sender Adaptors

A set adaptors used for alternative mounting of tank level senders. Ideally used when replacing conventional tank senders with the above unit. Manufactured from glass reinforced polyester for durability.

Level Sender Adapter Flanges

Part No.	Specification.
915536	Topside flange to adaptor S3 1¼" BSP to SAE 5 Hole
915537	Underside flange to mount FL-2 S5 SAE hole senders



P/no 915536



**Pressure Senders
10 - 180 OHMSA**

Range of earth return (grounded) senders for connection to pressure gauges. Available in an industry standard thread size for installation with an appropriate adaptor bush. Heavy metal construction is design for most pressure mediums and units are suitable for dual voltage connection.

Part No.	Range.	Voltage.	Thread.
915538	0 - 500 kPa	12/24 VDC	1/8" - 27NPTF
915540	0 - 1000 kPa	12/24 VDC	1/8" - 27NPTF



Inductive Senders

A popular range of tachometer senders for use on most diesel engines. An inductive magnetic sender produces an electrical signal when detecting the proximity of flywheel ring-gear teeth. This provides the input for inductive **tachometers**.

Part No.	Range.	Thread.	Length
915541	5/8" - 18UNF	304 SS	45mm
915542	5/8" - 18UNF		78mm
915543	3/4" - 16UNF		78mm