

VDO Instruments

VDO Marine Instruments have long been the industry's choice for rugged, dependable performance, elegant design, and leading-edge technology. VDO Marine Instruments are designed with state-of-the-art technology, CE certified, and built in ISO 9000 certified facilities to withstand the harshest marine environments. VDO is the first choice of leading marine manufacturers such as Formula, Mercury, and Sea Ray.

OCEAN LINE

VDO Ocean Line offers exceptionally reliable, precision instruments that are a major asset at sea. VDO has also had all the VDO Ocean Line instruments certified by German Lloyd - proof of their outstanding credentials in terms of safety and quality. Every VDO Marine instrument is designed to perform under the most demanding real world conditions.

While the style and beauty of the new Ocean Line are easy to appreciate, the durability and accuracy of these instruments will be seen in the years of trouble-free performance they'll provide. The wide range of interchangeable bezels gives you a choice of elegant design options, and the complete range of instruments will meet all your monitoring needs

Speedometers

Pitot Type, 3 3/8" (85mm) dia., 12v		
<i>Item/Description</i>	<i>Face</i>	<i>Black Bezel</i>
75mph/130kph (gauge only)	Black	2601101
75mph/130kph (gauge only)	White	2601151
50mph (gauge only)	Black	2601102
50mph (gauge only)	White	2601152

Sumlog, 3 3/8" (85mm) dia., 12/24v, Dual Scale (kn/mph)		
<i>Item/Description</i>	<i>Face</i>	<i>Black Bezel</i>
Sumlog Kit (Head, Sensor, & Cable) 50kn	Black	2601103
Sumlog Kit (Head, Sensor, & Cable) 50kn	White	2601153



Tachometers w/o Hourmeter

Programmable, 3 3/8" (85mm) dia., 12v		
<i>Item/Description</i>	<i>Face</i>	<i>Black Bezel</i>
6000 RPM	Black	3331101
6000 RPM	White	3331151
4000 RPM	Black	3331102
4000 RPM	White	3331152

Programmable, 3 3/8" (85mm) dia., 24v		
<i>Item/Description</i>	<i>Face</i>	<i>Black Bezel</i>
4000 MPH	Black	3331103
4000 MPH	White	3331153



* For most 4 cycle gas engines with square wave standard coil and electronic ignitions with 4, 6, 8, 12 cylinders. Also programmable for alternator output signals.

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Tachometers w/Hourmeter

Programmable, 3 3/8" (85mm) dia., 12/24v		
Item/Description	Face	Black Bezel
4000 RPM	Black	3331105
4000 RPM	White	3331155

*For alternator, inductive (mag pick-up) and most generator sender applications.



Programmable, 3 3/8" (85mm) dia., 12/24v		
Item/Description	Face	Black Bezel
6000 RPM	Black	3331106
6000 RPM	White	3331156

*For gas engines with square wave coil and electronic ignition, 2 and 4 cycle inboard and outboard applications.

Temperature Gauges

2 1/16" (52mm) dia., 12v			
Item/Description	Face	Symbol	Black Bezel
Water 240f/100c, 240-33 Ohms (US)	Black	Water	3101101
Water 240f/100c, 240-33 Ohms (US)	White	Water	3101151
Water 250f/120c, 10-180 Ohms (VDO)	Black	Water	3101103
Water 250f/120c, 10-180 Ohms (VDO)	White	Water	3101153
Transmission 400f	Black	Gear	3101107
Transmission 400f	White	Gear	3101157
Engine Oil 300f/150c	Black	Oil	3101108
Engine Oil 300f/150c	White	Oil	3101158



2 1/16" (52mm) dia., 24v			
Item/Description	Face	Symbol	Black Bezel
Water 240f/100c, 240-33 Ohms (US)	Black	Water	3101102
Water 240f/100c, 240-33 Ohms (US)	White	Water	3101152
Water 250f/120c, 10-180 Ohms (VDO)	Black	Water	3101104
Water 250f/120c, 10-180 Ohms (VDO)	White	Water	3101154
Engine Oil 300f/150c	Black	Oil	3101109
Engine Oil 300f/150c	White	Oil	3101159



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Oil Pressure Gauges

2 1/16" (52mm) dia., 12v			
Item/Description	Face	Symbol	Black Bezel
100 psi / 7 bar, 240-33 Ohms (US)	Black	Oil	3501101
100 psi / 7 bar, 240-33 Ohms (US)	White	Oil	3501151
80 psi / 5 bar, 10-180 Ohms (VDO)	Black	Oil	3501103
80 psi / 5 bar, 10-180 Ohms (VDO)	White	Oil	3501153
150 psi / 10 bar, 10-180 Ohms (VDO)	Black	Oil	3501105
150 psi / 10 bar, 10-180 Ohms (VDO)	White	Oil	3501155
150 psi / 10 bar, 240-33 Ohms (US)	Black	Oil	3501107
150 psi / 10 bar, 240-33 Ohms (US)	White	Oil	3501157
400 psi / 28 bar, 10-180 Ohms (VDO)	Black	Gear	3501109
400 psi / 28 bar, 10-180 Ohms (VDO)	White	Gear	3501159



2 1/16" (52mm) dia., 24v			
Item/Description	Face	Symbol	Black Bezel
100 psi / 7 bar, 240-33 Ohms (US)	Black	Oil	3501102
100 psi / 7 bar, 240-33 Ohms (US)	White	Oil	3501152
80 psi / 5 bar, 10-180 Ohms (VDO)	Black	Oil	3501104
80 psi / 5 bar, 10-180 Ohms (VDO)	White	Oil	3501154
150 psi / 10 bar, 10-180 Ohms (VDO)	Black	Oil	3501106
150 psi / 10 bar, 10-180 Ohms (VDO)	White	Oil	3501156
150 psi / 10 bar, 240-33 Ohms (US)	Black	Oil	3501108
150 psi / 10 bar, 240-33 Ohms (US)	White	Oil	3501158
400 psi / 28 bar, 10-180 Ohms (VDO)	Black	Gear	3501110
400 psi / 28 bar, 10-180 Ohms (VDO)	White	Gear	3501160



Outboard Water Pressure Kit

2 1/16" (52mm) dia., 12v			
Item/Description	Face	Symbol	Black Bezel
0-30 psi / 2 bar	Black	Water Pressure	1501101
0-30 psi / 2 bar	White	Water Pressure	1501151
0-60 psi / 4 bar	Black	Water Pressure	1501102
0-60 psi / 4 bar	White	Water Pressure	1501152

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Fuel Level Gauges

2 1/16" (52mm) dia., 12v			
<i>Item/Description</i>	<i>Face</i>	<i>Symbol</i>	<i>Black Bezel</i>
240-33 Ohms (US)	Black	Fuel Level	3011101
240-33 Ohms (US)	White	Fuel Level	3011151
10-180 Ohms (VDO)	Black	Fuel Level	3011103
10-180 Ohms (VDO)	White	Fuel Level	3011153
Adjustable 90-0 Ohms Tube Type	Black	Fuel Level	3011105
Adjustable 90-0 Ohms Tube Type	White	Fuel Level	3011155



2 1/16" (52mm) dia., 24v			
<i>Item/Description</i>	<i>Face</i>	<i>Symbol</i>	<i>Black Bezel</i>
240-33 Ohms (US)	Black	Fuel Level	3011102
240-33 Ohms (US)	White	Fuel Level	3011152
10-180 Ohms (VDO)	Black	Fuel Level	3011104
10-180 Ohms (VDO)	White	Fuel Level	3011154
Adjustable 90-0 Ohms Tube Type	Black	Fuel Level	3011106
Adjustable 90-0 Ohms Tube Type	White	Fuel Level	3011156

Water Level Gauges

2 1/16" (52mm) dia., 12v			
<i>Item/Description</i>	<i>Face</i>	<i>Symbol</i>	<i>Black Bezel</i>
240-33 Ohms (US)	Black	Water Level	3011107
240-33 Ohms (US)	White	Water Level	3011157
10-180 Ohms (VDO)	Black	Water Level	3011109
10-180 Ohms (VDO)	White	Water Level	3011159

2 1/16" (52mm) dia., 24v			
<i>Item/Description</i>	<i>Face</i>	<i>Symbol</i>	<i>Black Bezel</i>
240-33 Ohms (US)	Black	Water Level	3011108
240-33 Ohms (US)	White	Water Level	3011158
10-180 Ohms (VDO)	Black	Water Level	3011121
10-180 Ohms (VDO)	White	Water Level	3011161



2 1/16" (52mm) dia., 12/24v			
<i>Item/Description</i>	<i>Face</i>	<i>Symbol</i>	<i>Black Bezel</i>
4-20 mili-amp, Capacitive Type	Black	Water Level	3011122
4-20 mili-amp, Capacitive Type	White	Water Level	3011162

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Waste Level Gauges

2 1/16" (52mm) dia., 12/24v			
Item/Description	Face	Symbol	Black Bezel
4-20 mili-amp, Capacitive Type	Black	Waste	3011123
4-20 mili-amp, Capacitive Type	White	Waste	3011163



Hourmeters

2 1/16" (52mm) dia., 12/24v		
Item/Description	Face	Black Bezel
Illuminated	Black	3311101
Illuminated	White	3311151



Ammeters

2 1/16" (52mm) dia., 12/24v			
Item/Description	Face	Symbol	Black Bezel
80-0-80 amp (does not include shunt)	Black	AMP	1901101
80-0-80 amp (does not include shunt)	White	AMP	1901151
140-0-140 amp (does not include shunt)	Black	AMP	1901102
140-0-140 amp (does not include shunt)	White	AMP	1901152



Voltmeters

2 1/16" (52mm) dia., 12v			
Item/Description	Face	Symbol	Black Bezel
8-16v	Black	Battery	3321101
8-16v	White	Battery	3321151



2 1/16" (52mm) dia., 24v			
Item/Description	Face	Symbol	Black Bezel
18-32v	Black	Battery	3321102
18-32v	White	Battery	3321152

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Trim Gauges

2 1/16" (52mm) dia., 12v			
Item/Description	Face	Symbol	Black Bezel
Evinrude/Johnson OB	Black	Boat	3821101
Evinrude/Johnson OB	White	Boat	3821151
Honda OB	Black	Boat	3821102
Honda OB	White	Boat	3821152
Mariner/Mercury IO/OB OMC/Cobra	Black	Boat	3821103
Mariner/Mercury IO/OB OMC/Cobra	White	Boat	3821153
Yamaha OB	Black	Boat	3821104
Yamaha OB	White	Boat	3821154



Engine Synchronizer

3 3/8" (85mm) dia., 12/24v		
Item/Description	Face	Black Bezel
Engine Synchronizer, Port/Starboard, Alternator / Inductive / Gas	Black	4381191
Engine Synchronizer, Port/Starboard, Alternator / Inductive / Gas	White	4381192

Rudder Angle Indicators

3 3/8" (85mm) dia., 12v			
Item/Description	Face	Symbol	Black Bezel
Dual Station Kit, 0-90 Ohms	Black	Red/Green	3821191
Dual Station Kit, 0-90 Ohms	White	Red/Green	3811192

3 3/8" (85mm) dia., 24v			
Item/Description	Face	Symbol	Black Bezel
Dual Station Kit, 0-90 Ohms	Black	Red/Green	3821193
Dual Station Kit, 0-90 Ohms	White	Red/Green	3811194



3 3/8" (85mm) dia., 12/24v			
Item/Description	Face	Symbol	Black Bezel
Gauge Only, 10-180 Ohms	Black	Red/Green	3821105
Gauge Only, 10-180 Ohms	White	Red/Green	3811155

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Clock

2 1/16" (52mm) dia., 12/24v		
Item/Description	Face	Black Bezel
Clock	Black	3701101
Clock	White	3701151



Fluxgate Compass

3 3/8" (85mm) dia., 12/24v		
Item/Description	Face	Black Bezel
Complete Kit (Indicator, Sensor, 10m Cable)	Black	4901101
Complete Kit (Indicator, Sensor, 10m Cable)	White	4901151



Depth Sounder

3 3/8" (85mm) dia., 12/24v		
Item/Description	Face	Black Bezel
Thru Hull Installation Kit	Black	4021101
Thru Hull Installation Kit	White	4021151



Outside Temperature Gauge

2 1/16" (52mm) dia., 12/24v		
Item/Description	Face	Black Bezel
-10°F to + 120°F Single Scale	Black	3911105
-10°F to + 120°F Single Scale	White	3911155



Pyrometer

2 1/16" (52mm) dia., 12/24v		
Item/Description	Face	Black Bezel
250-1650°F Complete Kit	Black	3101106
250-1650°F Complete Kit	White	3101156



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Acoustical Warning Alarm

2 1/16" (52mm) dia., 12/24v

Item/Description	Face	Black Bezel
Acoustical Warning Alarm		4071101



Ocean Line Interchangeable Bezels

Flexible design options

With VDO you can design your own cockpit. VDO Ocean Line gives you the freedom to customize your cockpit to suit your personality. The wide range of interchangeable bezels gives you a choice of elegant design options. When it comes to the dial face, there is a choice between black or white.



Ocean Bezels		
Item/Description	3 3/8" (85mm)	2 1/16" (52mm)
Chrome	850-040	850-041
Black Chrome	850-042	850-043
Gold	850-044	850-045
Brass	850-048	850-049
Aluminum	850-050	850-051
Black	850-052	850-053
White	850-054	850-055

VDO Instruments

VISION SERIES

VDO Vision Series - world-class quality and performance made affordable.

VDO Vision Series Instruments are the perfect choice when you need to maximize value. Vision Series provides the advanced features, engineering, and durability you expect from VDO, but at a very affordable cost. With Vision Series, it's never been easier to choose VDO reliability and accuracy.

For unsurpassed night time visibility, Vision combines an illuminated pointer and VDO's exclusive Trioptic illumination with through-dial lighting. Innovations, such as the use of stepper-motor technology and the utilization of VDO designed air core movements, create highly accurate, dependable, and long-lasting instruments.

- Spin-Lok™ mounts for fast, secure installation
- Optional light diffusers change illumination color
- Black-painted brass bezels provide long-life corrosion resistance
- Now available with chrome bezels

Speedometers

Pitot Type, 3 3/8" (85mm) dia., 12v		
Item/Description	Black Bezel	Chrome Bezel
35 MPH (gauge only)	260-103	260-193
50 MPH (gauge only)	260-111	260-191
80 MPH (gauge only)	260-101	260-194
Pitot Tube Pickup and Sending Unit	270-900	



Tachometers w/Hourmeter

Programmable, 3 3/8" (85mm) dia., 12/24v		
Item/Description	Black Bezel	Chrome Bezel
3000 RPM	333-162	333-192
4000 RPM	333-163	333-193
6000 RPM	333-164	333-194



*For DDEC, square wave electronic coil ignitions, alternator, inductive(mag pickup), hall effect and generator sender applications.

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VISION SERIES

Tachometers w/o Hourmeter

Programmable, 3 3/8" (85mm) dia., 12v		
Item/Description	Black Bezel	Chrome Bezel
3000 RPM	333-152	333-199
4000 RPM	333-153	333-198
6000 RPM	333-154	333-197

* For square wave standard coil, electronic ignition and alternator applications.



Synchronizer

3 3/8" (85mm) dia., 12v		
Item/Description	Black Bezel	Chrome Bezel
Alternator, Inductive, Gas	333-190	333-196



Temperature Gauges

Electrical, 2 1/16" (52mm) dia., 12v			
Item/Description	Face	Black Bezel	Chrome Bezel
220°f, 240-33 Ohms (US)	Water	310-104	310-194
250°f, 10-180 Ohms (VDO)	Water	310-105	310-195
300°f, 10-180 Ohms (VDO)	Oil	310-106	310-196



Mechanical, 2 1/16" (52mm) dia., 12v			
Item/Description	Face	Black Bezel	Chrome Bezel
265°f, 72" Cap Tubing	Water	180-101	180-191
265°f, 96" Cap Tubing	Water	180-102	180-192

* 1/2" adaptor included

Pyrometer

2 1/16" (52mm) dia., 12v		
Item/Description	Black Bezel	Chrome Bezel
1,650°f, Complete	310-153	310-193
Gauge Only	310-151	310-194
Sender Only	323-892	



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Pressure Gauges

Electrical, 2 1/16" (52mm) dia., 12v			
Item/Description	Face	Black Bezel	Chrome Bezel
80 psi, 10-180 Ohms (VDO)	Oil	350-104	350-194
80 psi, 240-33 Ohms (US)	Oil	350-105	350-195
100 psi, 10-180 Ohms (VDO)	Oil	350-106	350-196
100 psi, 240-33 Ohms (US)	Oil	350-107	350-197
150 psi, 10-180 Ohms (VDO)	Oil	350-108	350-198
150 psi, 240-33 Ohms (US)	Oil	350-109	350-199
400 psi, 10-180 Ohms (VDO)	Trans	350-110	350-290

Mechanical, 2 1/16" (52mm) dia., 12v, 1/8"-27Npt connection			
Item/Description	Face	Black Bezel	Chrome Bezel
15 psi	Boost	150-101	150-191
30 psi	Boost	150-104	150-194
100 psi	Oil	150-107	150-197
150 psi	Oil	150-111	150-201

* See sender section for tubing kits.



Voltmeter

2 1/16" (52mm) dia., 12v			
Item/Description	Face	Black Bezel	Chrome Bezel
8-16V	Volts	332-109	332-193



Trim Gauges

2 1/16" (52mm) dia., 12v		
Item/Description	Black Bezel	Chrome Bezel
OMC	382-151	382-191
Mercury	382-152	382-192
Evinrude/Johnson OB	382-155	382-195



Fuel Gauges

2 1/16" (52mm) dia., 12v			
Item/Description	Face	Black Bezel	Chrome Bezel
10-180 Ohms (VDO)	Fuel	301-104	301019111
240-33 Ohms (US)	Fuel	301-105	301019211
Adjustable 90-0 Ohms Tube Type	Fuel	301-107	301019311

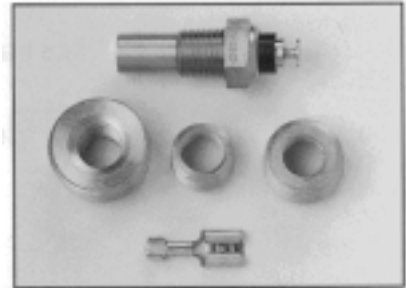


Temperature Senders

Universal Temperature Sender Kits

Description	Part #
250°F (120°C)	323 900
300°F (150°C)	323 905

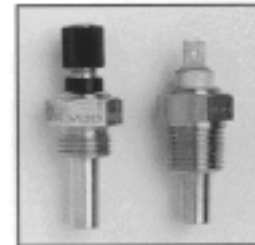
*Includes 1/8-27 NPT temperature sender, 1/4-18 bushing, 3/8-18 bushing, 1/2-14 bushing and 1/4" spade terminal.



Universal temperature sender kit

Individual Temperature Senders

Description	Thread	Warning contact	# on sender	Part #
Single Station Standard Ground				
250°F/120°C	1/8-27 NPT		801/5/1	323 095
250°F	1/2-14 NPT	205°F	803/1/6	323 098
250°F	1/2-14 NPT	230°F	803/1/6	323 100
250°F	M14 x 1.5	205°F	803/1/6	323 102
250°F	M14 x 1.5		801/1/26	323 416
250°F	M16 x 1.5		801/1/29	323 417
250°F	1/4-18 NPT		801/1/9	323 420
250°F	3/8-18 NPT		801/1/38	323 421
250°F	1/2-14 NPT		801/1/16	323 419
250°F	3/8-18 NPT		801/1/7	323 094
300°F/150°C	1/4-18 NPT		801/4/17	323 058
300°F	1/2-14 NPT		801/4/6	323 060
400°F/200°C	1/8-27 NPT		801/18/1	323 086
Single Station Floating Ground				
250°F	1/4-18 NPT		805/1/7	323 477
250°F	3/8-18 NPT		805/1/5	323 479
250°F	1/2-14 NPT		801/1/16	323 419
250°F	1/2-14 NPT		805/1/4	323 478
Dual Station Standard Ground				
250°F	3/8-18 NPT		801/2/4	325 008
250°F	1/2-14 NPT		N/A	325 010
250°F	1/4-18 NPT		801/2/1	325 001
Dual Station Floating Ground				
250°F	3/8-18 NPT		805/3/3	325 007
250°F	1/4-18 NPT		805/3/1	325 002



Temperature senders

PLEASE NOTE: VDO senders have tapered threads.
DO NOT use teflon tape or pipe sealant.
This will interfere with grounding, causing
gauge reading to be inaccurate.

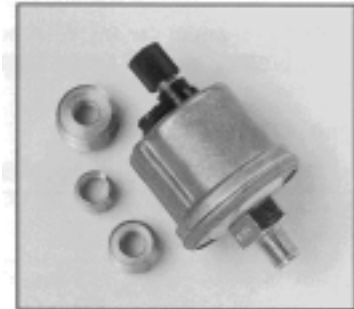
Pressure Senders

Universal Sender Kits take the guess work out of finding the right sender for your application.

NOTE: Failure to match instrument and sender will result in incorrect instrument readings.

Universal Pressure Sender Kits

Description	Part #
80 PSI (5 bar)	360 900
150 PSI (10 bar)	360 905
Includes 1/8-27 NPT pressure sender, 1/4-18 bushing, 3/8-18 bushing and 1/2-14 bushing.	



Universal pressure sender kit

Individual Pressure Senders

Description	Thread	Warning contact	# on sender	Part #
Single Station Standard Ground				
0-80 PSI/5 bar	1/8-27 NPT		29/4	360 003
0-80 PSI	1/8-27 NPT	7.0 PSI	30/23	360 009
0-80 PSI	1/8-27 NPT		N/A	360 801*
0-80 PSI	1/8-28 BSP		29/61	360 080
0-80 PSI	1/8-28 BSP	5.7 PSI	30/65	360 082
0-80 PSI	1/4-18 NPT		29/8	360 005
0-100 PSI	1/8-27 NPT		N/A	360 086
0-100 PSI	1/8-27 NPT		N/A	360 811*
0-150 PSI/10 bar	1/8-27 NPT		29/12	360 004
Single Station Floating Ground				
0-30 PSI	1/8-27 NPT		32/25	360 043
0-80 PSI	1/8-27 NPT		32/1	360 410
0-150 PSI	1/8-27 NPT		32/14	360 430
0-350 PSI	1/8-27 NPT		38/3	360 431
0-400 PSI/28 bar	1/8-27 NPT		38/8	360 406
Dual Station Standard Ground				
0-80 PSI	1/8-27 NPT		3/1	362 033
0-150 PSI	1/8-27 NPT		3/2	362 034
Dual Station Floating Ground				
0-80 PSI	1/8-27 NPT		1/1	362 001
0-150 PSI	1/8-27 NPT		1/2	362 002
0-350 PSI	1/8-27 NPT		2/1	362 003
0-400 PSI	1/8-27 NPT		2/3	362 004

*240-33 Ohm

PLEASE NOTE: VDO senders have tapered threads.
DO NOT use teflon tape or pipe sealant.
This will interfere with grounding, causing gauge reading to be inaccurate.



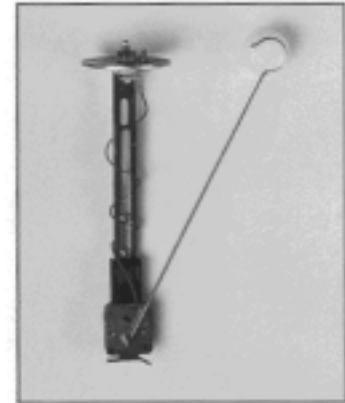
Pressure sender

Fuel and Water Level Senders

Fuel Tank Senders, Swing-Arm Type with Thick Film Resistor Technology

54mm (2¹/₈"), Bolt Circle dia., left or right hand float arm travel.

Description	Part #
Single Station Reading, 12/24V.	
Without Installation Kit No. 226 451 (6-23" Depth)	226 001
With Installation Kit No. 226 451 (6-23" Depth)	226 002
Dual Station Reading, 12/24V or 0-90 Ohms	
With Installation Kit No. 226 451	226 008
With Floating Ground (6-21" Depth)	226 403
Replacement US Fuel Sender, 12/24V	
Includes Installation Kit No. 226 451, standard ground.	
240-33 Ohms (E-F): Stewart Warner, Datcon, Faria, Medallion & Teleflex	226 007
Fuel Sender Installation Kit, 54mm (2¹/₈")	
Bolt-on fuel sender mounting kit; for fuel tanks without threaded mounting screw holes.	
	226 451
Replacement Fuel Sender Gaskets	
Neoprene-type, 54mm (2 ¹ / ₈ ")	226 053
Cork-type, 80mm (3 ¹ / ₈ "), Fuel & Water	600 525
Fresh Water Stainless Steel Level Sender, 12/24V	
54mm (2 ¹ / ₈ ") bolt circle, adjustable tank depths 8-24", installation kit included. VDO single station.	
	226 452



226 001

Tube Type Tank Units For VDO Adjustable Fuel Level Gauge

54mm (2¹/₈") Bolt Circle

Length	# on sender	Part No.
9 ¹⁵ / ₁₆ " (251.5 mm)	82/6/97	224 062
11" (279.5 mm)	82/7/22	224 055
12 ¹ / ₄ " (310.5 mm)	82/5/136	224 063
15 ¹⁵ / ₁₆ " (404.5 mm)	82/5/142	224 054
17 ¹ / ₁₆ " (433.5 mm)	82/5/98	224 066
19 ⁵ / ₈ " (498.5 mm)	82/5/117	224 067
22" (530 mm)	82/7/5	224 003
23 ⁷ / ₁₆ " (596.0 mm)	82/7/17	224 069
27 ¹ / ₄ " (692.2 mm)	82/5/11	224 004
31" (787.4 mm)	82/5/72	224 049
32 ⁷ / ₈ " (835 mm)	82/5/34	224 051



224 055

80mm (3¹/₈") Bolt Circle (For heavy duty use)

Length	# on sender	Part No.
25 ¹ / ₄ " (641.0 mm)	82/9/48	224 070
28 ³ / ₁₆ " (716.0 mm)	82/9/16	224 071
34 ¹¹ / ₁₆ " (881.0 mm)	82/14/3	224 074
36 ¹ / ₁₆ " (916.0 mm)	82/14/11	224 052



224 071

VDO Instruments

Tachometer and Generator Senders

Electric Generator Senders

For use with tachometers or engine synchronizers designated as generator type. Current: 10V AC @ 1000 RPM, 4 Pulses/Revolution.

RPM Reading Only

Description	Part #
7/8-18 Thread	340 001
M22 x 1.5 Thread	340 002

RPM Reading with Average Hour Counter

Description	Part #
7/8-18 Thread	340 008



340 008

Generator Sender Drive Keys

Description	Part #
.152"	340 060
.187"	340 061
.203"	340 062
.104"	340 065
.200"	340 064

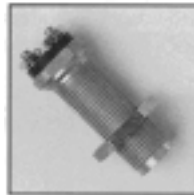


340 060

Inductive / Magnetic Pick-up Sender

For use with tachometers and engine synchronizers designated as inductive type.

Description	Part #
2" Long, 3/4-16 UNF Thread	340 020



340 020

Specialty Senders and Accessories

Pitot Tube and Pick-up Kit

For Pitot type speedometers.

Description	Part #
Includes pitot tube pickup and 20' tubing	270 900



270 900

Rudder Angle Indicator Senders

For use with VDO 12/24V Gauges.

Description	Part #
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Single Station Transmitter

For operating one VDO indicator. 440 003

Dual Station Transmitter

For operating two VDO indicators from one sender. 440 004

Installation Kit

Connects transmitter arm assembly to rudder cable. 440 050

Replacement Arm 440 100



440 003

Resistor Kits

Description	Part #
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For conversion of Tachometers without Hourmeters. 391 103 (Bulbs Included)

For conversion of Vision Series Instruments except Clocks, Hourmeters, 52mm Dia. Tachometers, Outside Temperature Gauges, Pyrometers, and Shunted Amp Meters. 391 102 (Bulbs Included)

For conversion of Standard Line Instruments Tachometers without Hourmeter. 391 101

For conversion of Standard Line Instruments except Clocks, Hourmeters, 52mm Dia. Tachometers, Outside Temperature Gauges, Pyrometers, and Shunted Amp Meters. 391 704

Warning Lights

12V snap-in warning lights with bulb. Requires 1/2" hole.

Description	Part #
Red lens	600 844
Green lens	600 845
Yellow lens	600 846
Blue lens	600 847



Warning lights

Gauge Accessories

Tubing Kits

Designed for 1/8-27 and 1/4-18 NPT adapters.

Description	Part #
6' plastic tubing	150 851
16' plastic tubing	150 855
6' copper tubing	150 856



150 851

Wiring Kit

Includes necessary wire and terminals.

Description	Part #
For all instruments except ammeters	240 023



240 023

Stud Mounting Kits

For converting Spin-Lok™ mounted instruments to stud type mounting.

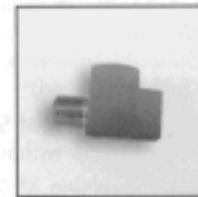
Description	Part #
2 1/16" gauge dia.	600 402
3 1/8" and 3 3/8" gauge dia.	600 401



600 402

T-Adaptors

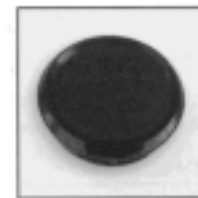
Description	Part #
Male 1/8-27 NPT	240 855
Male M10 x 1	240 850



240 850

Blind Cover

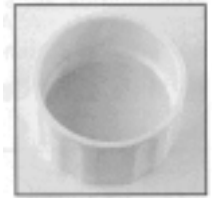
Description	Part #
2 1/16" dia.	240 864



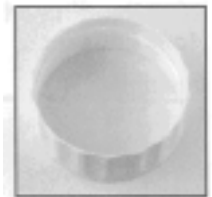
240 864

Replacement Spin-Lok™ Mounting Rings

Description	Part #
2 1/16" gauge dia.	600 404
3 1/8" gauge dia.	600 405
3 3/8" gauge dia.	600 406



600 404



600 405

Push-On Connectors

Provides convenient installation for all temperature, pressure, and fuel gauges with three-spade connectors.

Description	Part #
Housing w/ crimp connectors	240 026



240 026

Connector

VDO programmable gauge connector provides convenient installation for speedometers and tachometers.

Description	Part #
Connector w/ terminals	240 053



240 053

Light Bulbs and Sockets

Light Bulbs:

Type A

Fits socket numbers 600 813, 600 816, and 600 817

Description	Part #
9/32" 12V, 2W	600 802
9/32" 24V, 3W	600 807



Type B

Fits socket numbers 600 818 and 600 819

Description	Part #
11/32" 12V, 2W	600 804
11/32" 12V, 4W	600 806



Type C

Fits socket number 600 821

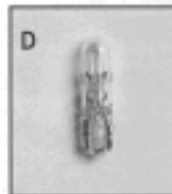
Description	Part #
3/8" 12V, 2W	600 820



Type D

Fits socket number 600 808

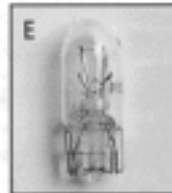
Description	Part #
Peanut bulb 12V, 1.2W Clear	600 809
Peanut bulb 24V, 1.2W Clear	600 829
Peanut bulb 12V, 1.2W Red	600 824
Peanut bulb 24V, 1.2W Red	600 822



Type E

Fits socket #600 839

Description	Part #
Wedge-base bulb 12V	600 815
Wedge-base bulb 24V	600 826

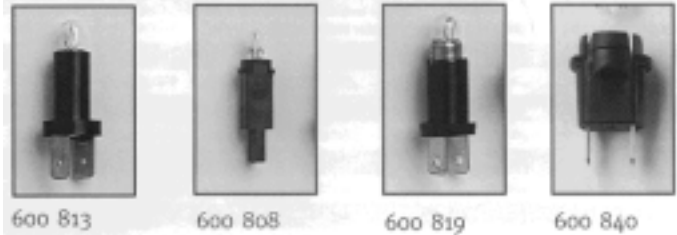


Ocean Line Bulb and Socket

Description	Part #
12V, 0.5W	800 762
24V, 0.5W	800 764

Insulated Light Bulb Sockets

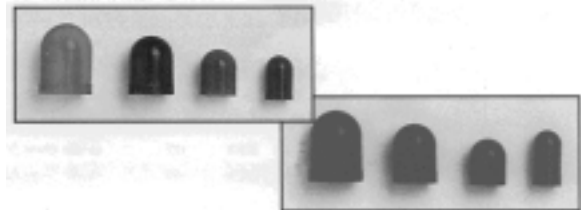
Description	Part #
3/8" , uses bulb type A	600 813
15/32" , uses bulb type B	600 819
Uses peanut type bulb D	600 808
Uses bulb type E	600 840
Uses Peanut Type Bulb D	600 840



Light Diffusers (For Vision Series)

The easy and convenient way to change the lighting color in your VDO gauge. Simply slips over light bulb to give your dash a whole new color at night.

Description	Part #
Red, Type A, 9/32" bulb	600 853
Green, Type A, 9/32" bulb	600 856
Red, Type B, 11/32" bulb	600 857
Green, Type B, 11/32" bulb	600 858
Red, Type D, "peanut" bulb	600 859
Green, Type D, "peanut" bulb	600 860
Red, Types E and C bulb	600 861
Green, Types E and C bulb	600 862



VDO Instruments

SERIES 230 HEAVY-DUTY PRESSURE SWITCH

The Series 230 Heavy-Duty Pressure Switches provide an economical and reliable choice for a multitude of pressure switch applications. Available in a variety of part numbers to cover most commonly demanded set points. Optional set points may also be field set to meet customer requirements.

Series 230 Pressure Switches are compact and compatible with a wide variety of fluids, making them ideal for most engine, brake, hydraulic and air system applications. All switches are provided with an insulated ground terminal to assure a quality ground circuit.

Normally Open – Single Circuit; 2 terminals, insulated ground

Range	Part No.
4 PSI	230 404
15 PSI	230 415
60 PSI	230 460

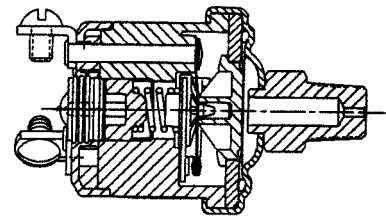
Normally Closed – Single Circuit; 2 terminals, insulated ground

Range	Part No.
4 PSI	230 504
15 PSI	230 515
60 PSI	230 560

Dual Circuit – normally open, normally closed, insulated ground

Range	Part No.
4 PSI	230 604
15 PSI	230 615
60 PSI	230 660

Overall Dimensions: Length = 2.52" | Width = 1.47"



Heavy-Duty Pressure Switch Technical Specifications

Normally Open: Contacts open until pressure rises which then completes the circuit.

Normally Closed: Contacts closed until pressure rises which then breaks the circuit.

Direct action blade contact pressure switches with adjustable contact ranges:

4–7 PSI ± 1; 14–24 PSI ± 3; 51–90 PSI ± 7

Contacts: Silver alloy, gold-plated

Operating Pressure (Set Point Range)

4–24 PSI = 150 PSI 25–90 PSI = 250 PSI

Proof Pressure: 500 PSI

Burst Pressure (Set Point Range)

4–24 PSI = 750 PSI 25–90 PSI = 1,250 PSI

Base: Brass

Diaphragm: Polyimide film

Cover: Glass reinforced polyester

Electrical Ratings

Resistive: 15 Amp–6 VDC

8 Amp–12 VDC

4 Amp–24 VDC

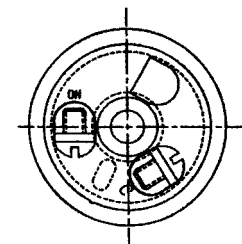
Inductive: 1 Amp–120 VAC

5 Amp–240 VAC

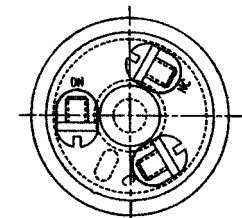
Temperature Range: -40°F to 250°F

Terminals: 1/4" blade, #8–32 screws

Thread Size: 1/8–27 NPT



(2 terminal configuration)



(3 terminal configuration)