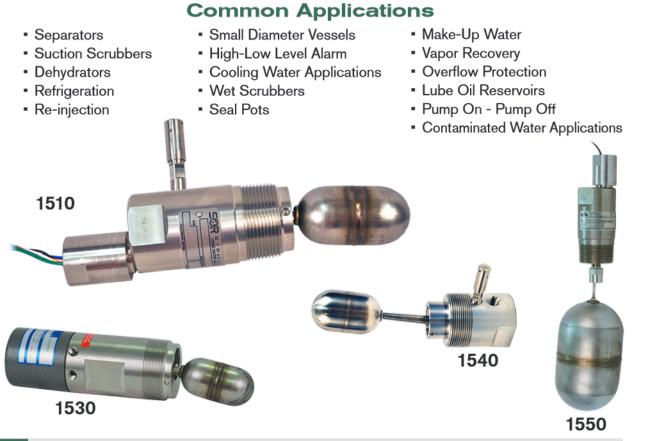


The SOR® family of **1500 Series Mechanical Level Switches** answer industry's call for less expensive alternatives to the traditional chambered level switch. The 1500s

are suitable for most any point level application.



- All Stainless Steel construction
- Standard product rating of 1500 psi @ -40 to 400°F (103 BAR @ -40 to 204°C)
- Minimum working temperature rating of -40°F
- 5000 psi rating available with polypropylene float
- Complete isolation of the process from the switch – no o-rings or seals

- Horizontal switches may be oriented for high- or low-level action
- SOR products are certified to IEC 61508 for non-redundant use in SIL1 and SIL2 Safety Instrumented Systems for most models. For more details or values applicable to a specific product, see the Safety Integrity Level Quick Guide (Form 1528).
- 5-year warranty

SEPARATORS

Multiple separators are a common occurance in the natural gas industry. Even with raw gas wells, there is always condensate, water, or some other NGL that needs to be separated prior to transporting for processing.

There are a number of separation technologies and all of them require collection of these liquids after separation. Some are simple gravity separators, while some can be quite elaborate. **Regardless of the separation method, SOR 1500 Series Level Switches fit the application.**

Inlet separator

As raw gas enters large vessels in the plant called "inlet separators", condensate (natural gasoline) and water is removed from the main gas stream. An SOR 1510 level switch is mounted in a separator at, or about, the same elevation as the inlet pipe that brings in the raw oil and gas mixture. A shut-off valve is installed in the inlet piping that is usually kept open by air pressure and allows the fluid mixture to enter the inlet separator. When liquid level reaches the float on the 1510 the switch actuates.

Upon actuation, a signal is sent to (for example) a solenoid valve, sometimes via a PLC, which shuts off the air normally routed to the valve. With the air supply cut off, the valve closes and fluid flow to the separator comes to a halt.

When an SOR 1540 is used, the air supply reaches the shut-off valve via the pneumatic level switch. When actuated, the air is blocked and the shut-off valve closes because of a lack of air supply.

In both cases, a separate level controller works in conjunction with a dump valve that drains the liquid from the inlet separator.

Blow case separator

Another specific separator application where 1500 series level switches excel is controlling a blowcase separator upstream from a compressor.

A blowcase separator is essentially two vessels connected vertically. Gas flows into the upper vessel (compressor) and gravity pulls liquids down into the lower vessel (blowcase). When the blowcase is full, a 1500 series switch actuates and closes a valve between the two tanks. A second valve opens and allows the compressed gas to move from the compressor back down into the blowcase. This forces the accumulated liquids out into the pipeline, downstream from the compressor.

A second 1500 series switch is often used as a low level to reset the system when the blowcase empties. Both the 1510 and 1540 may be used with equal effectiveness; the one you choose depends only on the application and your preference.

Glycol dehydrator

Often, a glycol dehydrator is necessary for removal of tiny water droplets from natural gas if the water was not completely extracted with the initial separator. The process works by "dehydrating" the natural gas; glycol dehydration involves putting glycol in contact with a stream of natural gas that contains water. The glycol absorbs the water from the wet gas stream, becomes heavier and sinks to the bottom of the contactor where it is expelled. The natural gas is then easily routed out of the dehydrator and the glycol/water solution is sent to a special boiler that evaporates the water, allowing the glycol to be recycled and dehydrate the natural gas once again.

An SOR 1500 series mechanical level switch is installed on the contactor to monitor glycol/ water levels. When mounted below the wet gas inlet, it prevents the glycol/water level from rising above it. If the level reaches the switch, a signal is sent to a solenoid valve that works in conjunction with a dump valve and drains the liquid from the dehydrator. The first step to creating your model string is to determine whether an electronic or pneumatic switch is needed, and whether a side or top mount switch is needed. Refer to the pages mentioned below for the different options for selecting the right technology for a specific application.



is a horizontally mounted, float-operated level switch suitable for plant and OEM applications where open or closed contacts are required to signal presence or absence of liquid at a discrete level. The float extension arm moves a magnet which actuates (deactuates) a hermetically sealed reed switch. Actuation (deactuation) can be reversed by rotating the unit 180 degrees.

1530 Side Mounted Pneumatic Level Switch.....7



is a horizontally mounted, float-operated level switch suitable for plant and OEM applications where pneumatic valve operation is required to signal presence or absence of liquid at a discrete level. The float extension arm moves a magnet which actuates (deactuates) a pilot valve to operate a pneumatic amplifier. Actuation (deactuation) can be reversed by rotating the unit 180 degrees.

1540 Side Mounted Pneumatic Level Switch.....9

is a horizontally mounted, float-operated level switch suitable for plant and OEM applications where pneumatic valve operation is required to signal presence or absence of liquid at a discrete level. The float arm moves a magnet which in turn moves a shuttle that either blocks or allows pilot pressure to pass and operate ancillary equipment. Actuation (deactuation) can be reversed by rotating the unit 180 degrees or switching inlet connections. The supply media must be filtered and oil free. Air is the usual media; however, any dry, filtered gas can be used.

1550 Top Mounted Level Switch......11

is a vertically mounted, float-operated level switch suitable for plant and OEM applications where open or closed contacts are required to signal presence or absence of liquid at a discrete level. The float stem moves a magnet that actuates (deactuates) a hermetically sealed reed switch.

- Manual Check
- Extended Float
- Interface Detection
- Chambers





1510 Side Mounted Level Switch

1510 is a horizontally mounted, floatoperated level switch suitable for plant and OEM applications where open or closed contacts are required to signal presence or absence of liquid at a discrete level. The float extension arm moves a magnet which actuates (deactuates) a hermetically sealed reed switch. Actuation (deactuation) can be reversed by rotating the unit 180 degrees.



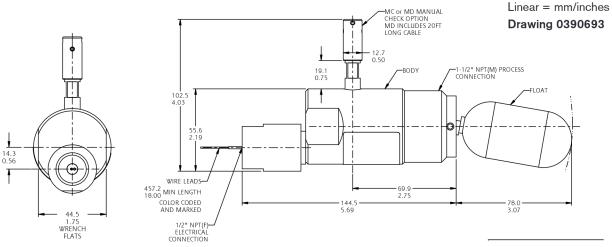
Product Specifications

Mounting	
Orientation	Horizontal mount only
Connection Size	1-1/2" through 6"
Connection Type	NPT(M) or Flanged
Maximum Process Pro	essure* up to 5000 psi (345 bar)
Process Temperature R	ange* -40 to 400°F (-40 to 204°C)
Electrical	
Switch Type	Hermetically sealed reed switch
	with 18" 20 AWG wire leads
Housing	Class I, Groups A, B, C & D;
	Divisions 1 & 2 with CS option
Relay Housing	Class I, Groups C & D;
	Divisions 1 & 2 with CS option
Connection Size	1/2" NPT(F)
Minimum Specific Gra	avity 0.45
Design Code	ANSI B31.3
Weight	Approximately 6 lbs. (3 kg)
Agency Listing*	CSA Certified (US & Canada) and
	ANSI/ISA 12.27.01, ATEX and IEC or
	RO approved (optional). See page 2. Certifications available upon request.
Safety Certified to IEC	roducts are certified to IEC 61508 for
	edundant use in SIL1 and SIL2 Safety
Instrumented	d Systems for most models. For more
	alues applicable to a specific product,
see the Safety Int	egrity Level Quick Guide (Form 1528).

*Agency certifications may affect ratings. See Accessories for details.

Dimensions

Design and specifications are subject to change without notice. For latest revision, see sorinc.com.



1 1/2" body shown. For all others, please consult factory.

Below is the SOR quick select model number tree that provides you with all the options to configure and order a product for your application. You must select a designator for each component.

		На	using	5	C	
F laste	onia Ossitala I			ES	6	Optional Accessories
Electro	DRIC SWITCH F	lousing: Class I, Groups A, Divisions 1 & 2 with C		ES		Insert accessory designator(s) as needed
Amperages based of		Mechanisms	4		CK*	ATEX and IECEx dual approved (not available with L9 or W9 switch mechanism). Ex d IIC Ga/Gb T4 (-40°C < Ta < +90°C), T5 (-40°C < Ta < +75°C) and Ex ia IIC T3 (-40°C < Ta < +125°C)
General Purpose	SPST	0.9A @ 110 VAC Max	W9		CL*	ATEX and IECEx approved. Ex ia IIC T3
		3A @ 28 VDC Max			CR	(-40°C < Ta < +125°C) 3/4" NPT(F) conduit connection
General Purpose	SPDT	3 Watt Minimum 0.9A @ 110 VAC Max 3A @ 28 VDC Max 3 Watt Minimum	W1		CS*	CSA Certified, US and Canada. Class 1, Group A, B, C, D; Divisions 1 & 2. For relay option; Class 1, Group C & D, Divisions 1 & 2. Single seal ambient & process temperatures -40°C to +125°C. Additional seal not required.
Low Power	SPST	25 Watts Max	L9		CV	Canadian Registration Number (CRN). Consult the
Low Power	SPDT	25 Watts Max	L1		нв	factory for applicable pressure and additional information Universal terminal box, 1/2" NPT(F), 316SS explosion
	Float	Material 3			HBME	proof. ATEX/IECEx certified Ex db IIC T4, T5, T6 Gb Universal terminal box, M20 x 1.5(F), 316SS explosion proof. ATEX/IECEx certified Ex db IIC T4, T5, T6 Gb
316SS (Standard) -		0 psig (103 bar) C (-40 to 204°C)			нт	Universal terminal box, 1/2" NPT(F), 316SS explosion proof. FM approved; CSA certified
Monel		00 psig (62 bar) M (-40 to 204°C)			MC**	Manual check accessory (uses Viton GLT o-rings - not available with polypropylene floats)
Polypropylene	5000	D psig (345 bar) S F (-40 to 88°C)			MD**	Manual check accessory (uses Viton GLT o-rings - not available with polypropylene floats) with 20' remote cable
					MR	Mill Test Report
Process C Threaded:		tions 2			NC	NACE construction - MR0175 / ISO 15156. Available only with 316SS materials of construction
meaded.		NPT(M) G2A			NM*	INMETRO approved. Ex ia IIC T3 (-40°C < Ta < +125°C)
Flanged: (Available w May affect process pressure rating.		ady only) 2" 150# G7C 300# G7D 600# G7E			RB***	24 VDC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2. 3/4" NPT(M) conn. w/ 1/2" NPT(F) adapter
	:	3" 150# G3C 300# G3D 600# G3E			RC***	120 VAC powered DPDT relay in explosion proof terminal box. Contact rating: 10 amps @ 115 VAC. Class I, Group C, D; Divisions 1 & 2. 3/4" NPT(M) conn. w/ 1/2" NPT(F) adapter
		4" 150# G4C 300# G4D			RR	Tag, stainless steel. (Attached with stainless steel wire to housing. Stamped with customer specified tagging information. 2 lines, 18 characters and spaces per line.)
	(6" 150# G6C 300# G6D			TS****	Taiwan Safety Mark
		_			тт	Stainless steel nameplate permanently attached to housing. Stamped with customer specified tagging information.
	aterial (Standard) nless Steel	1 в с				 CK, CL, CS or NM option is required on all flange mounted units. ** Manufacturer limits on Viton GLT are -40 to 400°F. *** Not available with L9 or L1 switch options. **** Requires use of CK or CL option.
	1510			ES	-	
	1510	B-G5A-C	- W9 ·	- ES	- MC	Example Model No.

Test Certificates

	Certificates	D1	D2	C 1	C3	C 4	C5	C6	C7	B5	B6	B7
	Certificate of Origin	•										
	Manufacturer's Certificate		•									
	Calibration			٠						•	•	•
1510 Level Switch	Inspection Report				•					•	•	•
	Compliance / Conformance					٠						•
	Dielectric Test						•			•		
	Insulation Resistance							•		•	•	
	QA Test Report								٠			

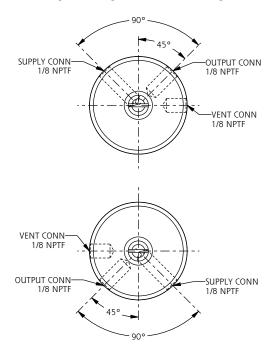
Replacement Parts

Description	Part Number
W9 - SPST Hermetically Sealed Switch Capsule	3130 - 106
W1 - SPDT Hermetically Sealed Switch Capsule	3130 - 245
W1 - SPDT Switch/Conduit Connection Assembly (CK option only)	3130 - 259
L9 - SPST Hermetically Sealed Switch Capsule	3130 - 107
L1 - SPDT Hermetically Sealed Switch Capsule	3130 - 244
L1 - SPDT Switch/Conduit Connection Assembly (CK option only)	3130 - 260
316SS Float Assembly	3130 - 052
20' Remote Cable with two cable crimps*	3130 - 040
Manual Check Accessory (MC) (2" NPT only)*	9227 - 024
Manual Check Accessory with 20' remote cable (MD) (2" NPT only)*	9227 - 025
Manual Check Accessory (MC) (1 ¹ / ₂ " NPT only)*	9227 - 028
Manual Check Accessory with 20' remote cable (MD) (11/2" NPT only)*	9227 - 029
I Init must have originally been supplied with MC or MD option	

*Unit must have originally been supplied with MC or MD option.

Limited Warranty

The 1530 is a horizontally mounted, float-operated level switch suitable for plant and OEM applications where pneumatic valve operation is required to signal presence or absence of liquid at a discrete level. The float extension arm moves a magnet which actuates (deactuates) a pilot valve to operate a pneumatic amplifier. Actuation (deactuation) can be reversed by rotating the unit 180 degrees.





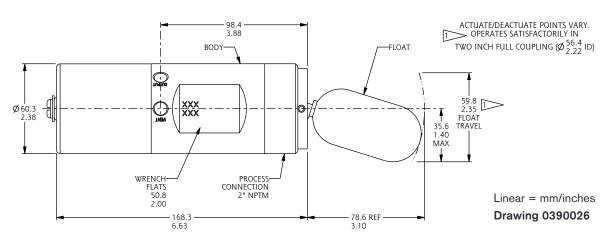
Product Specifications

Mounting	
•	He described as south a who
Orientation	Horizontal mount only
Connection Size	2" NPT(M) Standard
Flange Options Availal	ble
Maximum Process Press	ure
Float Material	
316SS	1500 psi (103 bar)
Monel	900 psi (62 bar)
Polypropylene	5000 psi (345 bar)
Process Temperature Ran	nge
Float Material	
316SS	-40 to 400°F (-40 to 204°C)
Monel	-40 to 400°F (-40 to 204°C)
Polypropylene	-40 to 190°F (-40 to 88°C)
Supply Pressure Range	20 to 60 psi (1.4 to 4.1 bar)
Supply Pressure Connect	tion Size 1/8" NPT(F)
Minimum Specific Gravity	/ 0.60
Design Code	ANSI B31.3
Weight	Approximately 6 lbs. (3 kg)

If supply pressure medium is natural gas, a filter/ regulator is suggested on the supply line, and the valve vent port should be piped to a safe area.

Dimensions

Design and specifications are subject to change without notice. For latest revision, see sorinc.com.



Below is the SOR quick select model number tree that provides you with all the options to configure and order a product for your application. You must select a designator for each component.

4	Switch Mechanism
OL	Pneumatic Switch
Float Material 3	5
316SS (Standard) 1500 psig (103 bar) C	5 Housing
-40 to 400°F (-40 to 204°C)	PS Pneumatic Switch Housing
Monel 900 psig (62 bar) M -40 to 400°F (-40 to 204°C)	6 Optional Accessories
Polypropylene 5000 psig (345 bar) S -40 to 190°F (-40 to 88°C)	Insert accessory designator(s) as needed
	BB Wetted parts are cleaned for industrial oxygen service
Process Connections 2 2" NPT(M) G2A	CV Canadian Registration Number (CRN). Consult the factory for applicable pressure and additional information.
Flanged: 2 1/2" 150# G7C	MR Mill Test Report
(Available with300#G7D316SS body only)600#G7E	NC NACE construction - MR0175 / ISO 15156. Available only with 316SS materials of construction
May affect process 3" 150# G3C pressure rating. 300# G3D 600# G3E	PP Tag, fiber. Attached with plastic wire to housing. Stamped with customer specified tagging information.
4" 150# G4C 300# G4D 6" 150# G6C	RR Tag, stainless steel. (Attached with stainless steel wire to housing. Stamped with customer specified tagging information. 2 lines, 18 characters and spaces per line.)
300# G6D Body Material	TT Stainless steel nameplate permanently attached to housing. Stamped with customer specified tagging information.
303SS (Standard) B 316 Stainless Steel C	VV Fungicidal varnish. Covers exterior except working parts.
1530 - JO -	PS -
1530 B-G2A-C-J0-	PS - Model No.

Certificates

	Certificates	D1	D2	C1	C3	C4	C7	B7
	Certificate of Origin	•						
	Manufacturer's Certification		•					
1530 Pneumatic Level Switch	Calibration			•				•
	Inspection Report				•			•
	Compliance / Conformance					•		•
	QA Test Report						•	

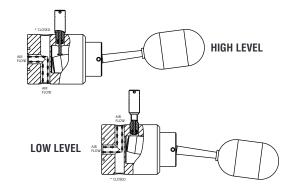
Replacement Parts

Description	Part Number
Pneumatic Relay Assembly	3130 - 114
316SS Float Assembly	3130 - 052

Limited Warranty

1540 is a horizontally mounted, floatoperated level switch suitable for plant and OEM applications where pneumatic valve operation is required to signal presence or absence of liquid at a discrete level. The float arm moves a magnet which in turn moves a shuttle that either blocks or allows pilot pressure to pass and operate ancillary equipment. Actuation (deactuation) can be reversed by rotating the unit 180 degrees or switching inlet connections (see below).

The supply media must be filtered and oil free. Air is the usual media; however, any dry, filtered gas can be used.





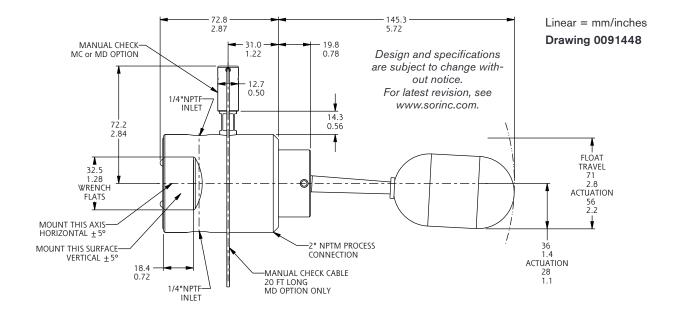
Product Specifications

Orientation	Horizontal mount only
Body Material	316 Stainless Steel
Connection Size	2" NPT(M)
I/O Connection	1/4" NPT(F)
Pilot (Supply) Pressure	0-30 psi (0-2 BAR)
	or 0-80 psi (0-5.5 BAR)
Flow Rate @ Max Pilot Pressur	e 60 SCFH (1.7 CMH)
Maximum Process Pressure	1500 psi (103 BAR)
Process Temperature Range	-40 to 400°F
	(-40 to 204°C)
Minimum Specific Gravity	0.65
Weight	3.5 lbs. (2 kg)

SCFH - Standard cubic feet per hour CMH - Cubic meter per hour

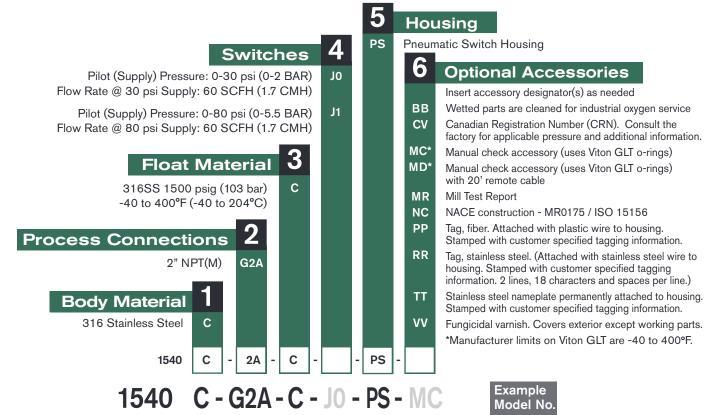
Dimensions

The drawings & illustrations below show the manual check (MC or MD) option.



1540 Side Mounted Pneumatic Level Switch

Here is the SOR quick select model number tree that provides you with all the options to configure and order a product for your application. You must select a designator for each component.



Test Certificates

	Certificates	D1	D2	C1	C3	C4	C7	B7
	Certificate of Origin	•						
	Manufacturer's Certificate		•					
1540 Pneumatic Level Switch	Calibration			•				•
	Inspection Report				•			•
	Compliance / Conformance					•		•
	QA Test Report						•	

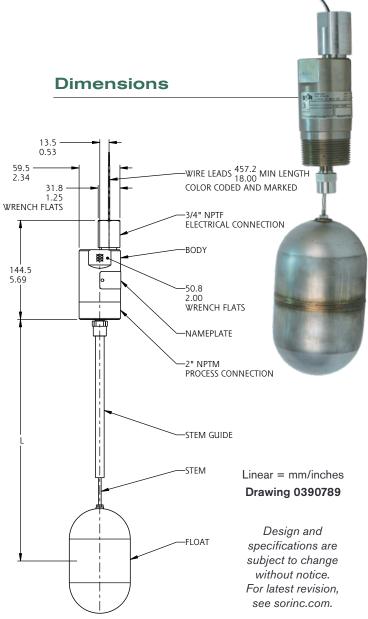
Replacement Parts

Description	Part Number
20' Remote Cable with two cable crimps**	3130 - 040
Float	3100 - 152
Float & Arm Assembly	9227 - 012
Manual Check Accessory (MC)**	9227 - 024
Manual Check Accessory with remote 20' cable (MD)**	9227 - 025

**Unit must have originally been supplied with MC or MD option.

Limited Warranty

1550 is a vertically mounted, float-operated level switch suitable for plant and OEM applications where open or closed contacts are required to signal presence or absence of liquid at a discrete level. The float stem moves a magnet that actuates (deactuates) a hermetically sealed reed switch.

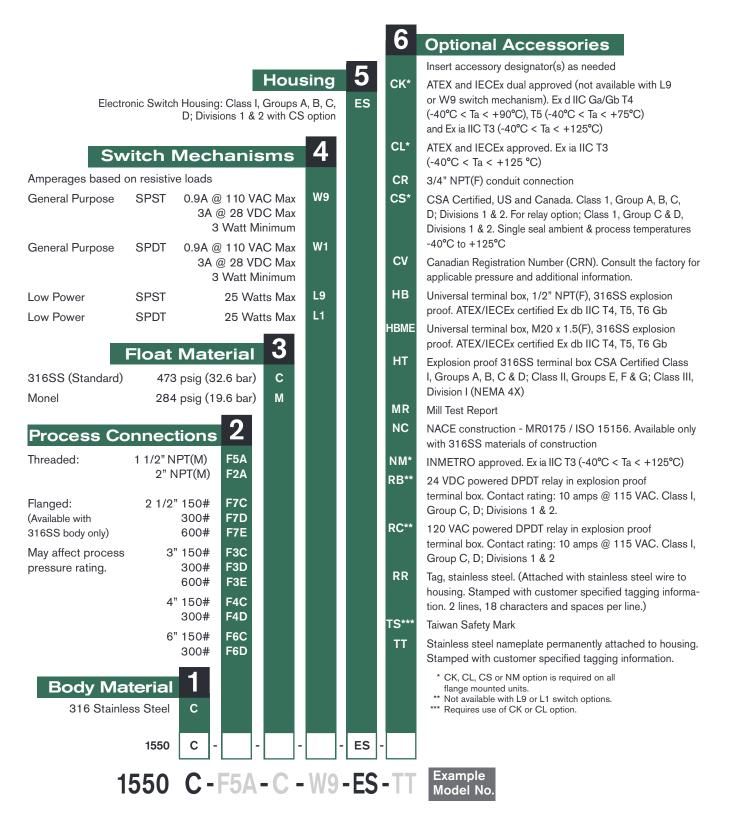


Product Specifications

Mounting	
Orientation	Vertical mount only
Body Material	316 Stainless Steel
Connection Size	1-1/2" through 6"
Connection Type	NPT(M) or Flanged
Maximum Process Pressure	up to 473 psi (32.6 bar)
	@ 400°F (204°C)
Process Temperature Range Electrical	-40 to 400°F (-40 to 204°C)
Switch Type Hermo	etically sealed reed switch
w	ith 18" 20 AWG wire leads
Housing C	lass I, Groups A, B, C & D;
Divis	sions 1 & 2 with CS option
Relay Housing	Class I, Groups C & D;
Divis	sions 1 & 2 with CS option
Connection Size	1/2" NPT(F)
Minimum Specific Gravity	0.60
(based on 14" insertion d	epth L in the figure at left)
Minimum Insertion Depth L	5" (13 cm)
Full Coupling	7" (17.8 cm)
Half Coupling	5.25" (13.3 cm)
Maximum Insertion Depth L	48" (122 cm)
Minimum Specific Gravity @	48" (122 cm) 0.71
Design Code	ANSI B31.3
Weight Ap	proximately 5 lbs. (2.2 kg)
Agency Listing* CSA	Certified (US & Canada) and
	Certified (US & Canada) and 12.27.01, ATEX and IEC or
ANSI/ISA	
ANSI/ISA INMETRO approv	12.27.01, ATEX and IEC or
ANSI/ISA INMETRO approv	12.27.01, ATEX and IEC or red (optional). See page 2. ns available upon request.
ANSI/ISA INMETRO approv Certificatio Safety Certified to IEC 61508	12.27.01, ATEX and IEC or red (optional). See page 2. ns available upon request.
ANSI/ISA INMETRO approv Certificatio Safety Certified to IEC 61508 SOR products	12.27.01, ATEX and IEC or ved (optional). See page 2. ns available upon request. 3 (SIL)
ANSI/ISA INMETRO approv Certificatio Safety Certified to IEC 61508 SOR products for non-redundant us	12.27.01, ATEX and IEC or red (optional). See page 2. ns available upon request. 3 (SIL) are certified to IEC 61508
ANSI/ISA INMETRO approv Certificatio Safety Certified to IEC 61508 SOR products for non-redundant us Instrumented	12.27.01, ATEX and IEC or red (optional). See page 2. ns available upon request. 3 (SIL) are certified to IEC 61508 se in SIL1 and SIL2 Safety
ANSI/ISA INMETRO approv Certificatio Safety Certified to IEC 61508 SOR products for non-redundant us Instrumented For more details	12.27.01, ATEX and IEC or red (optional). See page 2. ns available upon request. 3 (SIL) are certified to IEC 61508 se in SIL1 and SIL2 Safety Systems for most models.

*Agency certifications may affect ratings. See Accessories for details.

Below is the SOR quick select model number tree that provides you with all the options to configure and order a product for your application. You must select a designator for each component.



Customer to specify insertion depth L for each switch. See drawing on page 1. Stem guides are not installed on units with insertion depth L less than 7" (177.8 mm). The 1550 Series level switch has a 3.5" (90 mm) diameter float. It will not fit through many process connections. Be sure there is access to attach the float from inside the vessel after instrument installation if necessary.

Test Certificates

1550 Level Switch	Certificate Designator	D1	D2	C1	C3	C4	C5	C6	C7	B5	B6	B7
	Certificate of Origin	•										
	Manufacturer's Certificate		•									
	Calibration			٠						•	•	•
	Inspection Report				٠					٠	•	•
	Compliance / Conformance					•						•
	Dielectric Test						•			٠		
	Insulation Resistance							٠		•	•	
	QA Test Report								٠			

Replacement Parts

Designator	Part Number			
W9 - SPST Hermetically Sealed Switch Capsule	3130 - 106			
W1 - SPDT Hermetically Sealed Switch Capsule	3130 - 245			
W1 - SPDT Switch/Conduit Connection Assembly (CK option only)	3130 - 259			
L9 - SPST Hermetically Sealed Switch Capsule	3130 - 107			
L1 - SPDT Hermetically Sealed Switch Capsule	3130 - 244			
L1 - SPDT Switch/Conduit Connection Assembly (CK option only)	3130 - 260			
316SS Float. (Consult the factory for other materials.)	3101 - 122			
Actuator Replacement Kit	3130 - 396			

Limited Warranty

Manual Check

The original model 1500 was born from customer input and SOR continues the tradition by offering a manual check option for the 1500 series level switches. The optional manual check allows the user to verify switch integrity without removing it from the vessel or increasing or decreasing liquid levels. This is particularly useful for systems testing in safety applications, such as a manual override, where the switch is not called upon very often. It may also be used as a method to manually trigger a valve or activate the normal function of the switch.

Many customers are mandated by regulatory authorities to include this type of self-test function. Others just prefer the added functionality and peace of mind the manual check provides.

The manual check option is activated by simply pushing the self returning plunger. The manual check can also be activated by purchasing the MD option that provides a 20' remote cable.

Whatever your application, the manual check option provides added functionality

to the 1500 series without compromising pressure or temperature ratings.

Extended Float

On occasion, we have customers inquire about an extended float option for horizontally mounted 1500 series. These float extensions are available in a variety of lengths and materials based on the conditions and specifications that the application and customer demand.

This option extends the pivot arm, placing the float further into the process vessel. It is particularly helpful in applications where the nozzle diameter is too small, or where process build-up can limit the full travel of the float. In either case, the unit does not have suitable clearance to fully actuate/ deactuate; positioning the float past the obstruction allows it to travel the full range of motion.

There are times when extending the float can have adverse effects on the unit's ability to handle lower specific gravities. That's why SOR has several options available and is prepared to design a solution specifically for you if necessary.

* Adding a float extension will increase the unit's minimum specific gravity. Please consult factory to determine if a float extension is possible (Extension Length, SG, Pressure & Temperature required).

** Extended float option only available for the 1510 & 1530.

Chambers

Customers often ask SOR to use its machining and welding expertise to make small chambers that go with the 1500 series they purchase. Thanks to a major expansion of the SOR manufacturing facilities, we now offer competitively priced, ANSI quality chambers for use with the 1500 series products.

Flexible processes make it possible for us to offer chambers for both 1-1/2 and 2-inch body 1500 series products, as well as a wide range of available process connections. Whether you require the standard 1-inch NPT or even flanged connections, SOR can make it happen. Just give us your requirements and we're off and running.

With chambers from SOR, you can consolidate vendors and buy from a name you have trusted for many years.

Interface Detection

Liquid interface application can be commonly found across a wide range of industries.

The interface detection option changes the float's minimum specific gravity, allowing it to measure the lower liquid level while ignoring the upper (less dense) liquid. A specific gravity differential of approximately 0.25 between the upper & lower liquid is required for interface detection^{*}.

- * Please consult factory to determine if interface detection is possible (minimum and maximum interface specific gravities required).
- ** Interface detection option only available for the 1510 and 1530 with either 316SS(C) or Monel(M) float material.

All 1500 series mechanical level switches come with a 5-year warranty

SOR agrees to repair or replace any switch found to be defective in material or workmanship within five years from date of shipment. The limited warranty is valid only if the switch was installed in accordance with published factory installation instructions, operated within the design limitations stated on the nameplate and returned to the factory for inspection, freight prepaid, within the warranty period. Contact the factory for return authorization. No claim for labor or consequential damages will be allowed.

custom engineered to fit your application



MEASUREMENT AND CONTROL

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