North American Sensors Corp. Pressure Switches Inc.

nasc

Products that make sense

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Mission Statement

It is the mission of North American Sensors Corporation to manufacture innovative products for all industries. Our hope is that these products will continually create a benchmark of quality and customer satisfaction. Through these self imposed standards, we will continually strive to surpass industry expectations concerning product and personal performance. All of these pursuits will be conducted with the ultimate goal of becoming the industry leader in sensor manufacturing and technology.

Manufacturer's Warranty

North American Sensors Corporation warrants its products to be free from defects in material and workmanship when subjected to normal use and service for a period of one year from the date of purchase. This warranty is applicable only to product components that are stationary and not subject to normal wear. This warranty does not apply to products that have been subjected to electrical or chemical damage due to improper use, accident, negligence or abuse. Electrical damage to solid state components, relays, reedswitches or other components will not be covered. Also excluded are products that have been modified or altered, or have electrical cables that have been cut during installation. If anyone other than authorized personnel of NASC attempts to repair the device, this warranty is null and void.

NASC is responsible under this warranty for the repair or replacement of the defective product or components as deemed necessary upon inspection by NASC service personnel. NASC assumes no responsibility for consequential damages to personal or real property, or for injury to any person.

This warranty supersedes all warranties expressed or implied. The suitability of NASC products for a particular application and the implied warranty of merchant ability is excluded from warranty coverage. This warranty may not be expanded or altered other than in writing by an officer of NASC.

Defective products must be shipped to NASC prepaid and insured to the address below within 30 days of the original malfunction. All returned goods must be labelled with a Return Goods Authorization number obtained from NASC customer service. Also include the part number, serial number, name and contact number of someone capable of answering questions regarding the use, operation and liquid contamination of the product, a return shipping address and a description of the problem. All returns will be handled as quickly as possible and the preceding information will help to expedite the return or replacement of the product.











Bilge/Sump Level Switches

NASC's bilge switches are designed to be installed in ships bilges, tanks and industrial sumps, where it would be bolted to an adjoining structure. Custom configurations areavailable upon request. Specifications regarding this model may change without notice.

25 VA Form C Hermetically Sealed Reed Switch

BLG100/25SSS-X*

BLG150/25SSS-X*

BLG Series



BLG150/25SSS • Manual Lift/Test Mechanism

Standard Features:

Water Tight Seal
Made in the USA

Clear polycarbonate Slosh Shield
316SS Stem, Float and Brackets

4C 18AWG PVC Jacketed Cable

Max	250F	
Temp	2301	
Max	120	
PSIG	120	
Float	0.68	
SG	0.08	
Watt	25	
Ratting	AC/DC	
Max	120	
Volts	AC/DC	



25 WA REED SWITCH

MAGNET

DETAIL A





Standard Features:

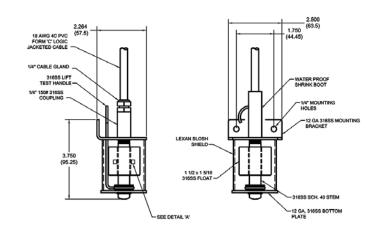
- 316SS Slosh Shield
- 316SS Stem, Float and Brackets
- 25 VA Form C Hermetically Sealed Reed Switch
- 4C 18AWG PVC Jacketed Cable
- Water Tight Seal
- Manual Lift/Test Mechanism
- Made in the USA

-X Options STO Cable 16AWG 4C Custom Lengths of Cable

*All switches can also be supplied with 100VA form 'C' hermetically sealed reed switch.

Note:

The actuation point will vary depending on the temperature and the specific gravity of the individual liquid being detected.



316SS FLOA

316SS SCH. 4



Bilge/Sump Level Switches

NASC's ABS Type approved bilge switch is designed to be installed in ships bilges, tanks and industrial sumps, where it would be bolted to an adjoining structure. Custom configurations are available upon request. Specifications regarding this model may change without notice. The (BLG250/25SSS switch is the only ABS type approved bilge level switch manufactured in the US.)

BLG250/25SSS

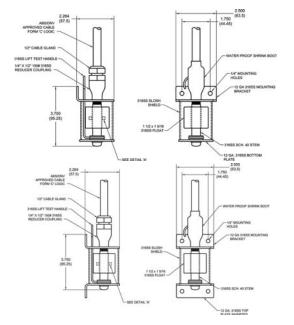


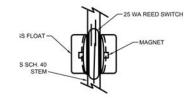
Standard Features:

- 316SS Slosh Shield
- 316SS Stem, Float and Brackets
- 25 VA Form C Hermetically Sealed Reed Switch
- ABS Approved Cable, 6 ft. Standard
- Water Tight Seal
- Manual Lift/Test Mechanism
- ABS Type Approved
- Made in the USA



Max	250F	
Temp	2301	
Max	120	
PSIG	120	
Float	0.68	
SG	0.08	
Watt	25	
Ratting	AC/DC	
Max	120	
Volts	AC/DC	





Wiring Logic
Switch Rated SPDT 25VA
Red - N.O.
Black - N.C.
White - Common
Green - Ground

For a more rugged design, our BLG250/25SSS-B has a double bracketing system and the slosh shield is tig welded to the brackets and stem.

The ground wire on this switch should not be used as part of the circuit and should only be used when a ground is not available to the switch.

*All switches can also be supplied with 100VA form 'C' hermetically sealed reed switch.

Note:

The actuation point will vary depending on the temperature and the specific gravity of the individual liquid being detected.



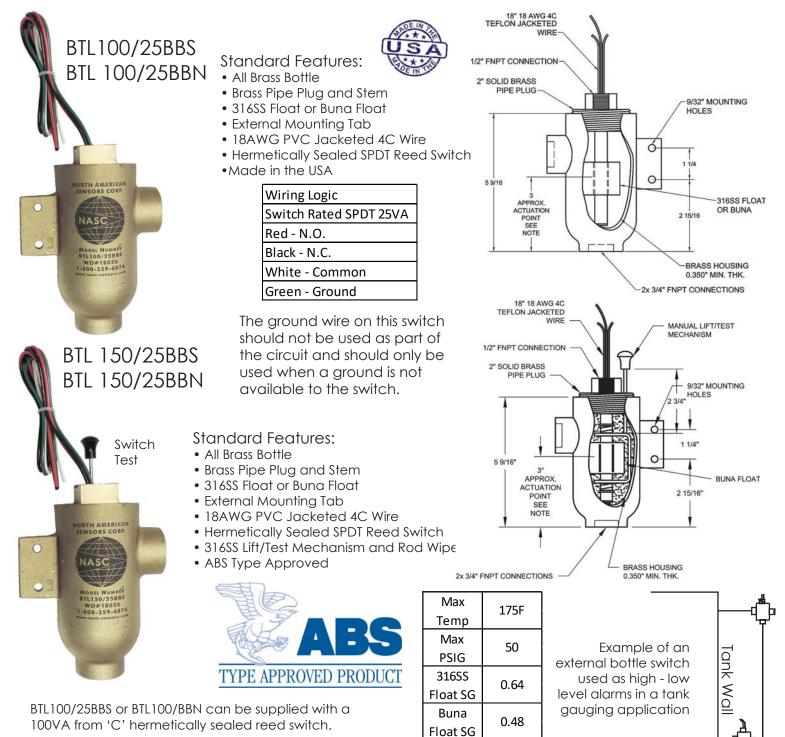
BLG Series



Bottle Switches (External Mount Level Switches)

BTL Series

NASC's line of brass bottle switches are designed to be installed externally to ship tanks and industrial tanks. It may also be bolted to an adjoining structure. Custom configurations are available upon request. Specifications regarding this model may change without notice.



Note:

The actuation point will vary depending on the temperature and the specific gravity of the individual liquid be detected. 25

AC/DC

Watt

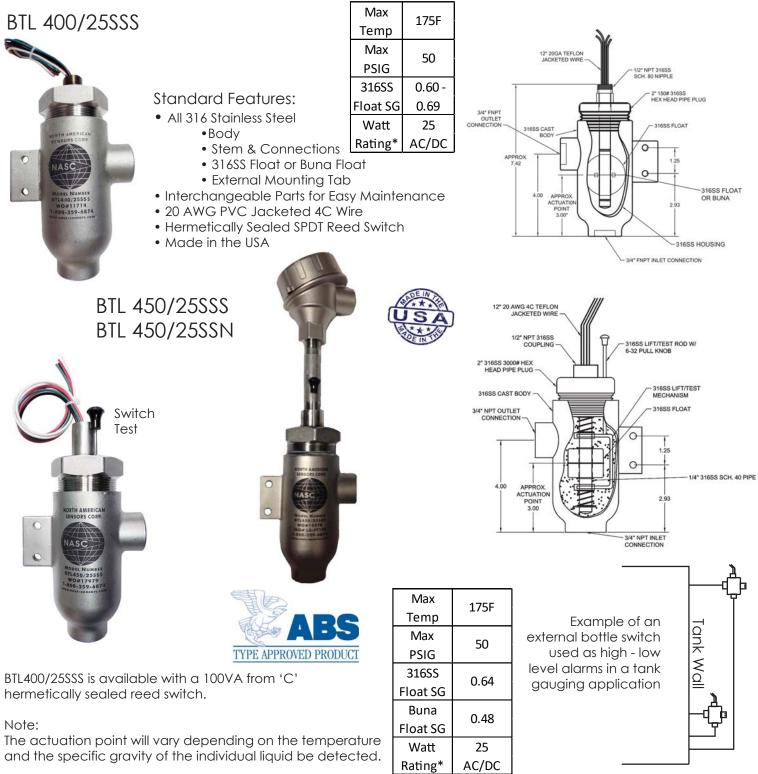
Rating*



Bottle Switches (External Mount Level Switches)

NASC's line of stainless steel bottle switches are designed to be installed externally to ship tanks and industrial tanks. It may also be bolted to an adjoining structure. Custom configurations are available upon request. Specifications regarding this model may change without notice.

BTL Series





Bottle Switches (External Mount Level Switches)

Nasc's line of stainless steel bottle switches are designed to be installed external to marine and industrial tanks to provide a level alarm. It may also be bolted to an adjoining structure for remote mounting. Custom configurations are available upon request. Specifications regarding this model may change without notice.



upon request

The actuation point will vary depending on the temperature and the specific gravity of the individual liquid be detected.

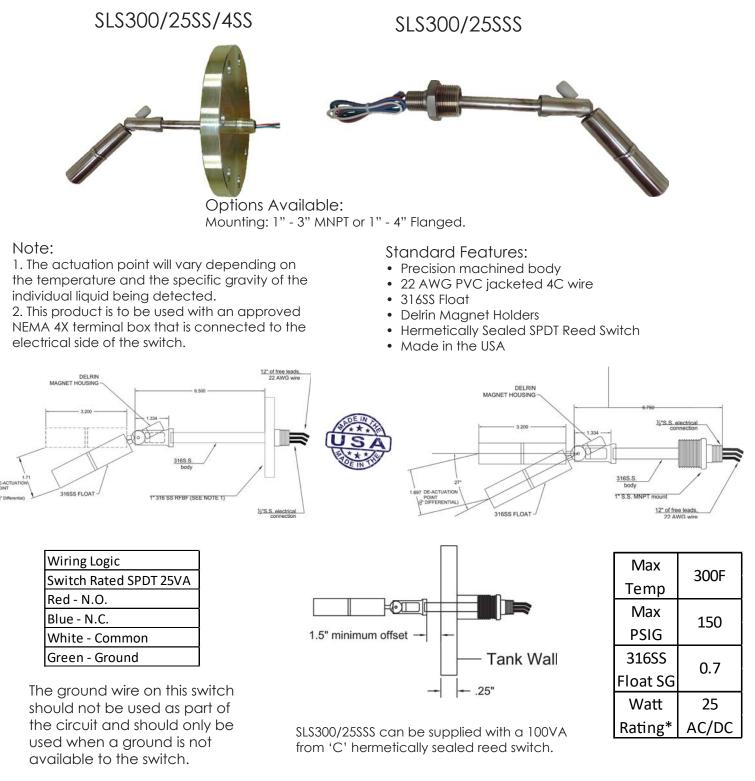
BTL Series



Side Mount Level Switches

NASC's SLS300 is a side mount level switch & actuates at the location it is mounted. Designed to be used in tanks where the top of the tank is inaccessible. We offer this switch with either a 25VA or 100VA reed switch. Specifications regarding this model may change without notice. Consult factory for custom configurations.

SLS Series





Side Mount Interface Level Switches

NASC's SLS90 is designed to interface between two different liquids (i.e., oil & water). The 0.95 specific gravity float enables this unique design to sense when heavier liquids collect in the bottom of storage tanks. Custom configurations are available, consult the factory for more information. Specifications regarding this model may change without notice.

SLS90/25SSS		Max	250F
		Temp	2301
		Max	150
		PSIG	130
		316SS	0.95
*		Float SG	0.95
		Watt	25
	ASSE IN TA	Rating*	AC/DC

SLS90/25SSS can be supplied with a 100VA from 'C' hermetically sealed reed switch.

Flange connections from 3" and above available.

Standard Features:

- All 316 Stainless Steel
 - 1/2" .065 Wall Tubing Stem
 - 2" Hex Head Pipe Plug
 - 316SS Float
- 18 AWG/4C Foil Shielded Cable
- Hermetically Sealed SPDT Reed Switch

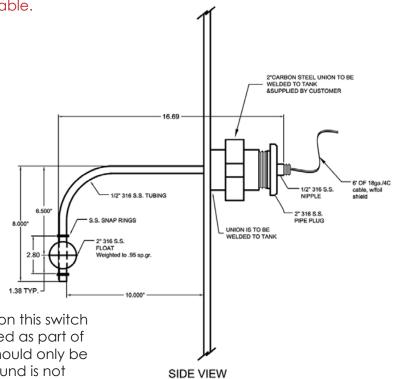
Note:

1. The actuation point will vary depending on the temperature and the specific gravity of the individual liquid being detected.

2. This product is to be used with an approved NEMA 4X terminal box that is connected to the electrical side of the switch.

Wiring Logic
Switch Rated SPDT 25VA
Red - N.O.
Black - N.C.
White - Common
Green - Ground

The ground wire on this switch should not be used as part of the circuit and should only be used when a ground is not available to the switch.



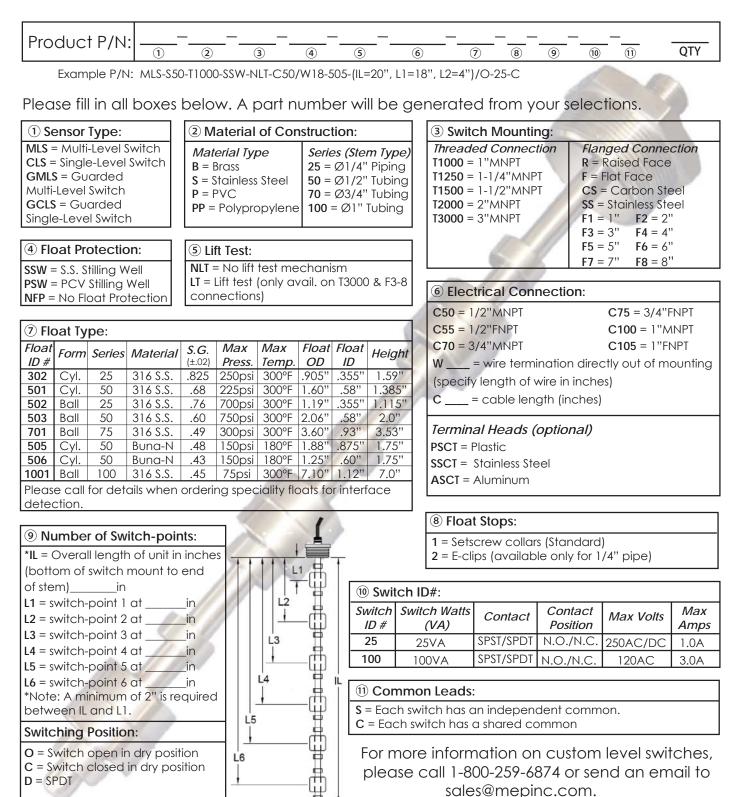
SLS Series



Custom Level Switches

CLS Series

Custom Level Switch Ordering Form

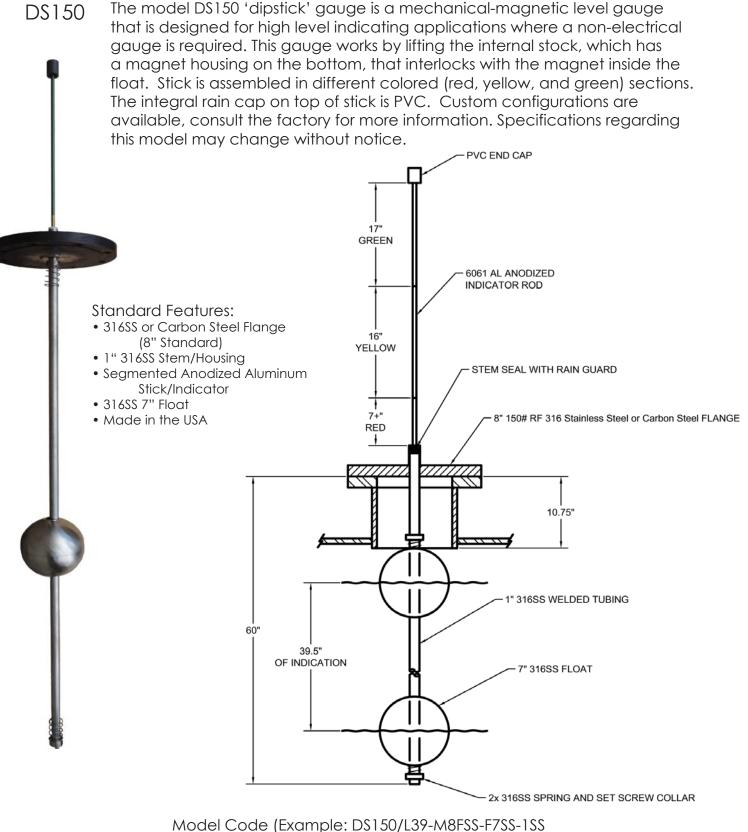




North American Sensors Corp. Quality Pressure, Level, and Temperature Solutions

Mechanical-Magnetic Level Indicator

DS Series



Specify DS150/L(Length in inches)/M(Mounting type)



Series 1 Pressure Switch



Key Features

- Field Adjustable
- High, Low, Differential & Vacuum Pressure Switch options available
- All Anodized Aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- Multiple Electrical Connections Available
- 11 amp UL recognized micro switch standard, gold plated contacts and 5 amp micro switch also available
- UL & cUL Approved
 - NEMA 4, 4x, 13

Operating Specifications

Adjustment Range:	See Table Below for Options
Circuit Form:	SPDT
Electrical Ratings:	11A (RES/IND) - 1/4 HP @125 OR 250VAC
	5A RES, 3A IND @ 28VDC
	.5A RES @ 28VDC
	Optional: 100mA @125VAC, 0.25A @ 6VDC
Pressure Connection:	See Ordering Chart Adjacent
Temperature Range:	-30°F to 160°F (-34°C to 71°C)
Diaphragm Material:	See Ordering Chart Adjacent
Electrical Connection:	See Ordering Chart Adjacent
Multi-Conductor	UL 22464, CSA T1 18AWG PVC insulated per UL
Cable:	1007, secured with a nylon liquid tight connector
Cycle Life:	Model 1A, 1C, 1G, 1Z, 1H for moderate to low
	cycling, Model 1P for high cycling applications

Maralal	Range ID	Switch Adju	istment Range	Dead Ban	id Approx.	Max S	ystem	Proof	Test
Model	Number	psi	bar	psi	bar	psi	bar	psi	bar
	.01	2 - 15	0.138 - 1.03	0.2 - 2	0.014 - 0.138	500	34.5	1000	68.9
1A	.03	5 - 75	0.34 - 5.17	0.5 - 6	0.034 - 0.414	750	51.7	1000	68.9
10	.43	15 - 200	1.03 - 13.79	2 - 15	0.138 - 1.03	1000	68.9	1250	86.2
_	.53	50 - 450	3.45 - 31.03	5 - 30	0.345 - 2.07	1500	103.4	3000	206.8
1G	.62	50 - 1000	3.45 - 68.95	10 - 50	0.69 - 3.45	2000	137.9	5000	344.7
1Z	.63	100 - 1750	6.89 - 120.66	15 - 100	1.03 - 6.89	3000	206.8	5000	344.7
	.64	200 - 2500	13.79 - 172.37	20 - 150	1.38 - 10.34	3000	206.8	5000	344.7
	.71	100 - 1800	6.89 - 124.11	25 - 125	1.72 - 8.62	5000	344.7	10000	689.5
1P	.72	200 - 2500	13.79 - 172.37	30 - 150	2.07 - 10.34	5000	344.7	10000	689.5
	.73	350 - 3250	24.13 - 224.09	50 - 350	3.45 - 24.13	7500	517.1	10000	689.5
	.74	350 - 4250	27.58 - 310.27	80 - 350	5.52 - 24.13	7500	517.1	10000	689.5
111	.83	400 - 4000	27.58 - 275.79	75 - 450	5.17 - 31.03	5000	344.7	10000	689.5
1H	.84	500 - 5000	34.47 - 344.74	75 - 500	5.17 - 34.74	7500	517.1	10000	689.5

How to Order (Example: Part Number 1G10N1.43) 10 N1.43 G **Range** 01 2 - 15 psi 03 5 - 75 psi 43 15 - 200 psi 53 50 - 450 psi 62 50 - 1000 psi 63 100 - 1750 psi 71* 100 - 1800 psi 72* 200 - 2500 psi 73* 350 - 3250 psi 74* 350 - 4250 psi 83** 400 - 4000 psi 84** 500 - 5000 psi Diaphragm N1 Nitrile Polyamide F1 Viton Polyamide Viton Stainless Steel F2 F6** Viton Polyamide N9* Nitrile SST Piston Teflon **Electrical Connection** 10 18" Free leads 11 DIN 43650/IP65 42 Terminal Strip for Wiring **Pressure Connection** AL 1/2"-14 NPT 316SS 1/4"-18 NPT A AL С 1/4"-18 NPT D AL G AL 1/4"-18 NF1 H** 316SS 1/4"-18 NPT 1/4"-18 NPT P* AL Z 316SS1/2"-14 NPT

Options:

1

(Example: Part Number 1G10N1.43.5)

- .5 5A Micro Switch
- Available only for model 1P (Piston Pressure Switch)
- ** Available only for model 1H (S.S. Piston Pressure Switch)

Wiring Diagram

DIN43650

$$\begin{bmatrix} 3 \\ 2 & 1 \\ g R D \end{bmatrix}$$
PIN 1 = N.O.
PIN 2 = N.C.
PIN 3 = COM

18" Free leads BLUE = N.O.RED = N.C.BROWN = COM GREEN = GRD



Series 1 Pressure Switch

Low Pressure Switch

Part Number	1G10N1. 12	1G10N1.14
Adj. Range	0.36 - 3.61 psi	2 - 16 psi
	(10" - 100" WC)	(55" - 443" WC)
Deadband	0.018- 0.108 psi	0.072- 0.25 psi
	(0.5" - 3" WC)	(2" - 7" WC)
Proof Test	250 psi	250 psi

How to Order

1

G

Series 1

Terminal Strip

Part Number 1X42XX.XX

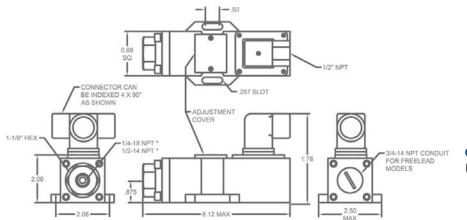
Anodized aluminum terminal strip is for wiring a 1/2-14 FNPT conduit fitting. This option is available for any pressure ranges including the differential, vacuum, and high pressure switches.



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FAL

Dimensional Specifications



REMOVE COVER FOR MIRING TO TERMINAL BLOCK

1/2-14 NPT CONDUIT CONNECTION

(Example: Part Number 1G10N1.43) N1.43 10 Range 01 2 - 15 psi 03 5 - 75 psi 15 - 200 psi 43 53 50 - 450 psi 62 50 - 1000 psi 63 100 - 1750 psi 71* 100 - 1800 psi 72* 200 - 2500 psi 73* 350 - 3250 psi 74* 350 - 4250 psi 83** 400 - 4000 psi 84** 500 - 5000 psi Diaphragm N1 Nitrile Polyamide F1 Viton Polyamide Viton Stainless Steel F2 F6** Viton Polyamide N9* Nitrile SST Piston Teflon **Electrical Connection** 10 18" Free leads 11 DIN 43650/IP65 42 Terminal Strip for Wiring **Pressure Connection** AL 1/2"-14 NPT 316SS 1/4"-18 NPT 1/4"-18 NPT D AL 1/4"-18 NPT G AL H** 316SS 1/4"-18 NPT 1/4"-18 NPT **P*** AI 316SS1/2"-14 NPT

Options:

(Example: Part Number 1G10N1.43.5)

.5 5A Micro Switch

А

С

Ζ

* Available only for model 1P (Piston Pressure Switch)

** Available only for model 1H (S.S. Piston Pressure Switch)



Series 1 Pressure Switch

Differential Pressure Switch			
Part Number	1 D XXF1. 02	1 D XXF1. 04	
Adj. Range	2 - 20 psi	5 - 95 psi	
Max System	400 psi	400 psi	
Proof Hi/Lo	1000 psi	1000 psi	
Proof Lo/Hi	1000 psi	1000 psi	
Pressure Port	AL 1/4-18 FNPT	AL 1/4-18 FNPT	



Series 1

**Also available in 316SS 1/4-18 FNPT process fittings (P/N: 1DCXXXX.XX)

Electrical Connection

10 - 18" Free leads 11 - DIN 43650/IP65

Vacuum Switch

Part Number	1 V XXN9. 91
Vacuum Range	1 - 28 inHg
Deadband	0.75- 1.50 inHg
Proof Test	300 psi
Pressure Port:	AL 1/8-27 FNPT



Operating Specifications

Adjustment Range: Circuit Form:	See Table on Page 1 for Options SPDT
Electrical Ratings:	11A (RES/IND) - 1/4 HP @125 OR 250VAC
	5A RES, 3A IND @ 28VDC .5A RES @ 28VDC
	Optional: 100mA @125VAC, 0.25A @ 6VDC
Pressure Connection:	See Ordering Chart on Page 1 for Options
Temperature Range:	-30°F to 160°F (-34°C to 71°C)
Diaphragm Material:	See Ordering Chart on Page 1 for Options
Electrical Connection:	See Ordering Chart on Page 1 for Options
Multi-Conductor	UL 22464, CSA T1 18AWG PVC insulated per UL
Cable:	1007, secured with a nylon liquid tight connector
Cycle Life:	Model 1A, 1C, 1G, 1Z, 1H for moderate to low
	cycling, Model 1P for high cycling applications

Key Features

- Field Adjustable
- High, Low, Differential & Vacuum Pressure Switch
 options available
- All Anodized Aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- Multiple Electrical Connections Available
- 11 amp UL recognized micro switch standard, gold plated contacts and 5 amp micro switch also available
- UL & cUL Approved
- NEMA 4, 4x, 13



Series 2 Pressure Switch



Key Features

- Field Adjustable
- Compact Design
- All Anodized Aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- Multiple Electrical Connections Available
- 11 amp UL recognized micro switch standard, gold plated contacts and 5amp micro switch also available
- UL & cUL Approved
- NEMA 4, 4x, 13

Operating Specifications

Adjustment Range Circuit Form Electrical Ratings

See Table Below for Options SPDT 11A (RES/IND) - 1/4 HP @125 OR 250VAC 5A RES, 3A IND @ 28VDC .5A RES @ 28VDC Optional: 100mA @125VAC, 0.25A @ 6VDC See Ordering Chart Adjacent for Options

Pressure Connection Temperature Range Diaphragm Material Electrical Connection Multi-Conductor Cable

72

.73

.74

Cycle Life

2P

-30°F to 160°F (-34°C to 71°C) See Ordering Chart Adjacent for Options See Ordering Chart Adjacent for Options UL 22464, CSA T1 18AWG PVC insulated per UL 1007, secured with a nylon liquid tight connector Model 2A, 2C, 2G, 2Z for moderate to low cycling Model 2P for high cycling applications

2.07 - 10.34

3.45 - 24.13

80 - 350 5.52 - 24.13

5000

7500

7500

344.7

517.1

517.1

10000

10000

10000

Model Range ID Switch Adjustment Range Dead Band Approx. Max System Proof Test Number bar bar psi psi psi bar psi .01 2 - 20 0.138 - 1.38 0.2 - 2 0.014 - 0.138 500 34.5 1000 2A 2Z .03 5 - 95 0.34 - 6.55 1-6 0.069 - 0.414 750 51.7 1000 .43 15 - 200 1.03 - 13.79 2 - 15 0.138 - 1.03 1000 68.9 1250 2C 2G 53 50 - 450 3.45 - 31.03 5 - 30 1500 103.4 3000 0.345 - 2.07 50 - 1000 3.45 - 68.95 10 - 50 0.69 - 3.45 137.9 5000 .62 2000 2C 2G .63 100 - 1750 6.89 - 120.66 20 - 100 1.38 - 6.89 3000 206.8 5000 .71 100 - 1800 6.89 - 124.11 25 - 125 1.72 - 8.62 5000 344.7 10000

30 - 150

50 - 350

13.79 - 172.37

24.13 - 224.09

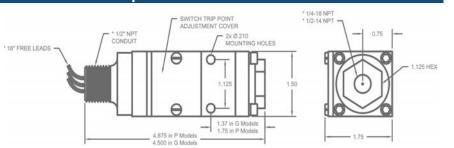
27.58 - 310.27

Dimensional Specifications

200 - 2500

350 - 3250

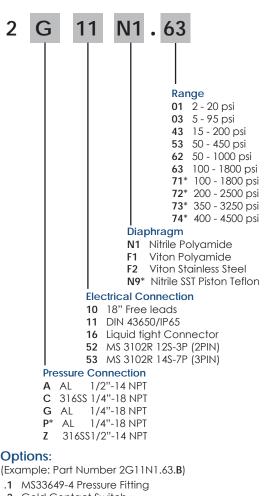
400 - 4500



How to Order

(Example: Part Number 2G11N1.63)

Series 2



- .2 Gold Contact Switch
- .5 5A Micro Switch

bar

68.9

68.9

86.2

206.8

344.7

344.7

689.5

689.5

689.5

389.5

.B Base bracket for mounting

* Available only for model 2P (Piston Pressure Switch)

Wiring Diagram

DIN43650

18" Free leads BLUE = N.O.RED = N.C.BROWN = COMGRFFN = GRD



Series 6 Pressure Switch



Key Features

- Explosion Proof, Rated for Hazardous Areas
- Field Adjustable
- Low Pressure Switch Available
- All precision machined Anodized aluminum Construction
- 316SS Pressure Ports Available
- All Markings Laser Engraved into body for long lasting durability and visibility
- 11 amp UL recognized micro switch standard, gold plated contacts and 5 amp micro switch also available
- UL Approved
- NEMA 4, 4x, 7, 9

Operating Specifications

Adjustment Range	See Table Below for Options
Circuit Form	SPDT (12)
Electrical Ratings	11A (RES/IND) - 1/4 HP @125/250VAC
	5A RES @ 30VDC
	2x 11A (RES/IND) - 1/4 HP @125/250VAC
	5A RES @ 30VDC
Pressure Connection	See Ordering Chart Adjacent for Options
Temperature Range	-30°F to 160°F (-34°C to 71°C)
Diaphragm Material	See Ordering Chart Adjacent for Options
Electrical Connection	See Ordering Chart Adjacent for Options

Model	Range ID	Switch Adjustment Range		Dead Ba	Dead Band Approx.		ystem	Proof Test	
	Number	psi	bar	psi	bar	psi	bar	psi	bar
CA C7	.01	2 - 15	0.138 - 1.03	0.2 - 4	0.014 - 0.275	500	34.5	1000	68.9
6A 6Z	.03	5 - 75	0.34 - 5.17	0.5 - 8	0.034 - 0.551	750	51.7	1000	68.9
6C 6G	.43	15 - 200	1.03 - 13.79	2 - 18	0.138 - 1.24	1000	68.9	1250	86.2
	.53	50 - 450	3.45 - 31.03	5 - 33	0.345 - 2.27	1500	103.4	3000	206.8
	.62	50 - 1000	3.45 - 68.95	10 - 55	0.69 - 3.79	2000	137.9	5000	344.7
6C 6G	.63	100 - 1750	6.89 - 120.66	15 - 110	1.03 - 7.58	3000	206.8	5000	344.7
	.64	200 - 2500	13.79 - 172.37	20 - 175	1.38 - 12.06	3000	206.8	5000	344.7
6P	.73	350 - 3250	24.13 - 224.09	50 - 400	3.45 - 27.58	7500	517.1	10000	689.5
611	.83	400 - 4000	27.58 - 275.29	75 - 500	5.17 - 34.74	5000	344.7	10000	689.5
6H	.84	500 - 5000	34.47 - 344.74	75 - 500	5.17 - 34.74	7500	517.1	10000	689.5

Low Pressure Switch

Part Number	6G12N1. 12	6G12N1. 14
Adj. Range	0.36 - 3.61 psi (10" - 100" WC)	2 - 16 psi (55" - 443" WC)
Deadband	0.027- 0.144 psi (0.75" - 4" WC)	0.072- 0.25 psi (2'' - 7'' WC)
Proof Test	250 psi	250 psi

How to Order

6

(Example: Part Number 6G12F1.03)

G 1	2 F1.03
	Range 01 2 - 15 psi 03 5 - 75 psi 43 15 - 200 psi 53 50 - 450 psi 62 50 - 1000 psi 63 100 - 1750 psi 64 200 - 2500 psi 73* 350 - 3250 psi
	83** 400 - 4000 psi 84** 500 - 5000 psi
	Diaphragm N1 Nitrile Polyamide F1 Viton Polyamide F2 Viton Stainless Steel F6** Viton Polyamide N9* Nitrile SST Piston Teflon
	Electrical Connection 12 SPDT (Silver)
 A AL C 316SS D AL G AL H** 316SS 	Connection 1/2"-14 NPT 5 1/4"-18 NPT 1/4"-18 NPT 1/4"-18 NPT 5 1/4"-18 NPT 1/4"-18 NPT

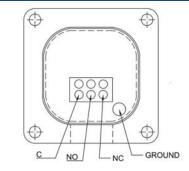
Series 6

* Available only for model 6P (Piston Pressure Switch) ** Available only for model 6H (High Pressure Switch)

Z 316SS1/2"-14 NPT

• Listed by: Underwriters Laboratories Inc. (File No. E123884) Suitable for Class 1, Groups A, B, C, D; Class II, Groups E, F, G.

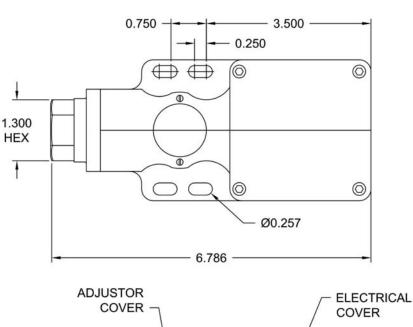
Wiring Diagram

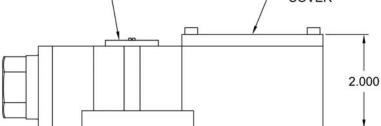




Series 6 Pressure Switch

Dimensional Specifications





How to Order (Example: Part Number 6G12F1.03) F1.03 12 G 6 Range 01 2 - 15 psi **03** 5 - 75 psi 43 15 - 200 psi 53 50 - 450 psi 62 50 - 1000 psi 63 100 - 1750 psi 64 200 - 2500 psi 73* 350 - 3250 psi 83** 400 - 4000 psi 84** 500 - 5000 psi Diaphragm N1 Nitrile Polyamide F1 Viton Polyamide F2 Viton Stainless Steel F6** Viton Polyamide N9* Nitrile SST Piston Teflon **Electrical Connection** 12 SPDT (Silver) **Pressure Connection** A AL 1/2"-14 NPT C 316SS 1/4"-18 NPT D AL 1/4"-18 NPT 1/4"-18 NPT G AL 1/4"-18 NPT H** 316SS 1/4"-18 NPT P* AL 1/4"-18 NPT Z 316SS1/2"-14 NPT * Available only for model 6P (Piston Pressure Switch) ** Available only for model 6H (High Pressure Switch)



Level/Pressure Transmitters

Series 575 Pressure Transmitter

Two wire 4-20mA output transmitters offering superb chemical and corrosion resistance. Gauge or Absolute pressure is detected using a four active arm strain gauge bridge sensor, fuse to a high-purity ceramic diaphragm. Ranges from 100mbar to 600 bar or scaled to customers requirements.



Operating Specifications

Wetted Materials Standard Ranges Safe over-range pressure 1.5 x rated range **Burst Pressure** Output—span Output-zero Repeatability Compensated Operating Temp. Thermal zero shift **Thermal Span** Long Term Stability Supply Loop Resistance

316 S.S., Alumina ceramic & Viton See Ordering Chart for Options 3 x rated range minimum 16mA +/- 1% span 4mA +/- 1% span Non-linearity, hysteresis & 0.25% of span (best fit straight line)

> -0 to +80 deg C -20 to +125 deg C +/- 0.04% span per deg C +/-0.015% reading per deg C 0.1% per 12 month typical 10 to 32VDC $1.1k\Omega$ max @ 32VDC supply

Key Features

- All Stainless Steel Housing
- Rugged Construction
- Wide Pressure Ranges Available

- 4 20mA Output
- Excellent Linearity
- Long Term Stability
- Wide Temperature Range
- Excellent Corrosion Resistance
- Units can be factory scaled
- ABS Type Approved



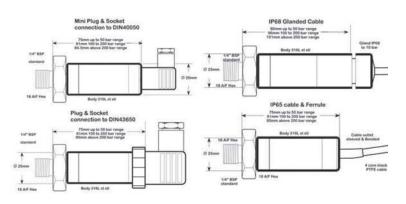


Level/Pressure Transmitters

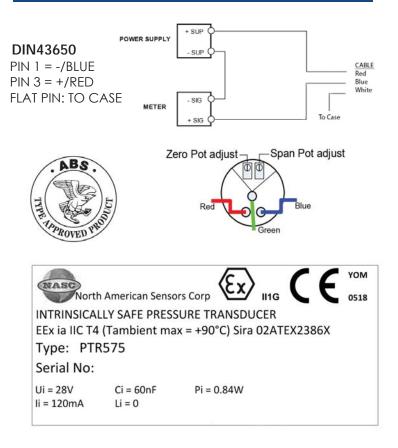
Series 575

Series 575 Pressure Transmitter

Dimensional Specifications



Wiring Diagram



How to Order

(Example: Part Number PTR575G/T7/20B/Q/C/V/300)

		Ρ	TF	857	75*0	G / T7	/ 20)B /	Q	/	C	./\	//	Set * Range
-														
_				necti										
T1 T2	_					sh diaphrag n Nose Con								
T7					nale)	n Nose Con	ie							
T2	_			<u> </u>		aphragm)								
T4					emale									
т4	_				nale)	/								
Т4	_			P (m										
Т4	_				emale))								
Т4	5	1/2"	BS	P (m	iale)									
	_													
	Ra	ange	2			10B	1	0bar						
	0.	1B		0.	1 bar	20B	2	0bar						
	0.	4B		0.	4 bar	50B	50) bar						
	16	3			1 bar	100B	100) bar						
	28	3			2 bar	200B	200) bar						
	36	3			3 bar	400B	400) bar						
	5E	3			5 bar	500B	500) bar						
	Са	ble	Οι	utle	t									
	С		IP	65 c	rimpe	ed cable a	& leng	gth (f	t.)					
	D					DIN40050								
	н					650 plug								
	1		-			ed cable 8			+)					
	-									_				
	Q	Cable outlet DIN43650 w/4-20mA												
	adjustable pots													
				ſ	Αςςμι	racy Class						ר ו		
				0 1%/	snan	RESI	1		1					
			NL&H < \pm 0.1%/span BFSL NL&H < \pm 0.15%/span BFSL											
			$NL&H < \pm$											
				Ļ	~		0.20/0	, spai	r			J		ī
									0-r	ring	g N	later	rial	
									v	V	ito	n		
									Ε	E	PD	M		
									н	Н	NE	BR		

* PTR575A (Atmospheric, Zero offset ranges available.)

к

Kalrez



Level/Pressure Transmitters

Series 525 Pressure Transmitter

Two wire 4-20mA output transmitters offering superb chemical and corrosion resistance. Gauge or Absolute pressure is detected using a four active arm strain gauge bridge sensor, fuse to a high-purity ceramic diaphragm. Ranges from 100mbar to 50 bar or scaled to customers requirements. Standard cable length is 10', custom cable lengths available.



Operating Specifications

Wetted Materials	316L S.S., A
Standard Ranges	See Order
Safe over-range pressure	1.5 x ratec
Burst Pressure	3 x rated r
Output—span	16mA +/-
Output—zero	4mA +/- 19
Non-linearity, hysteresis &	0.25% of sp
Repeatability	
Compensated	-0 to +80 c
Operating Temp.	-20 to +12
Thermal zero shift	+/- 0.04% s
Thermal Span	+/- 0.015%
Long Term Stability	0.1% per 1
Supply	10 to 32VE
Loop Resistance	1.1k <mark>Ω</mark> max

816L S.S., Alumina ceramic & Viton See Ordering Chart for Options .5 x rated range 8 x rated range minimum 6mA +/- 1% span 9.25% of span (best fit straight line)

-0 to +80 deg C (32 to 176F) -20 to +125 deg C (-4 - 257F) +/- 0.04% span per deg C +/- 0.015% reading per deg C D.1% per 12 month typical 10 to 32VDC 1.1kΩ max @ 32VDC supply

Key Features

- All Stainless Steel Housing
- Rugged Construction
- Wide Pressure Ranges Available
- 4 20mA Output
- Excellent Linearity
- Long Term Stability
- Wide Temperature Range
- Excellent Corrosion Resistance
- Units can be factory scaled
- ABS Type Approved





li = 120mA

Li = 0

North American Sensors Corp. Quality Pressure, Level, and Temperature Solutions

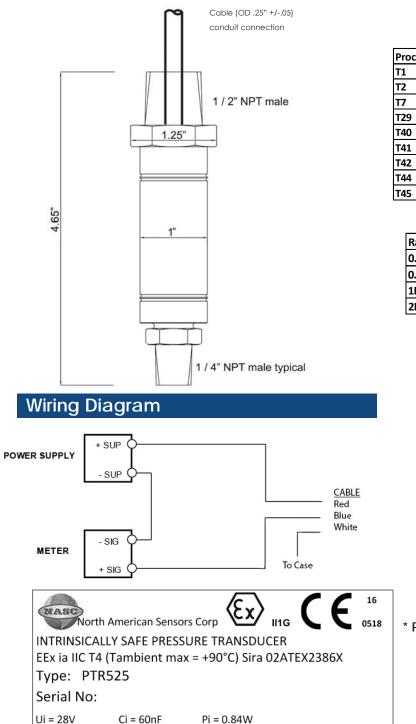
Level/Pressure Transmitters

Series 525

Sot *

Series 525 Pressure Transmitter





How to Order

(Example: Part Number PTR525G/T7/20B/I30/C/V/300)

	Ρ	TR525'	G / T7	/ / 20B /	130	/ C / \	// Set * Range
Proce		nnection					
T1		nersible (flu	ish dianhra	gm)			
T2		BSP w/ Delr					
T7		NPT (male)					
T29		BSP (flush d	liaphragm)				
T40		NPT (femal					
T41		NPT (male)	,				
T42		BSP (male)					
T44		BSP (female	e)				
T45		BSP (male)					
Ra	inge		3B	3 bar			
	1B	0.1 bar	-	5 bar			
0.4		0.4 bar		10bar			
1B		1 bar		20bar			
28		2 bar		50 bar			
		·		·			
			e Outlet				
		с		oed cable & lengt led cable & lengt			
		I		iduit connection			
			(10.) 01 001				
				cy Class			
				L&H < ± 0.1%/spa			
				<u>L&H < ± 0.15%/sp</u> L&H < ± 0.25%/sp			
				LQH < 1 0.25%/ SP		5	
					0-ri	ing Materia	<u> </u>
					v	Viton	
					E	EPDM	
					н	HNBR	
					К	Kalrez	
							-

* PTR525A (Atmospheric, Zero offset ranges available.)



Quality Pressure, Level, and Temperature Solutions

Series 150

OEM Pressure Transmitters

Series 150 Pressure Transmitter

The PTR150 is a compact & robust transmitter, providing pressure measurement in the range of 1 to 200 bar. All ranges are available in gauge or absolute format to suit customer requirements. An all laser welded stainless steel construction ensures media isolation. The product is designed to meet the tough environmental conditions experienced by modern day applications.



Key Features

- Compact and rugged construction
- Cost effective
- 1% total error band (-40°C to 105°C)
- High immunity to EMC: 100V/m
- 5V supply: 0.5 to 4.5V ratiometric output
- 8 to 30V supply: 4-20mA or 1 to 5V output
- Packard, M12 or Mini DIN connectors

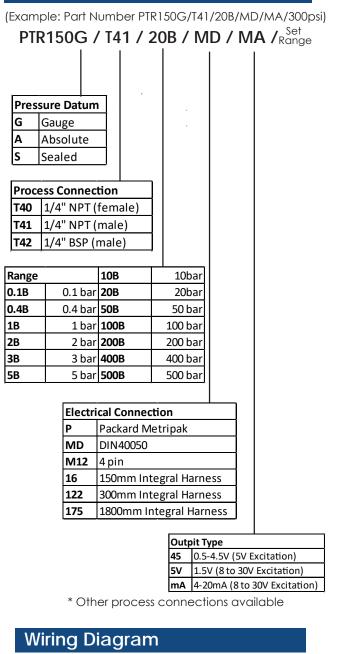
Operating Specifications

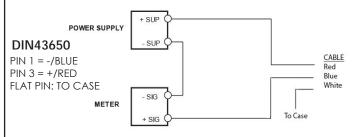
Output Type		0.5 to 4.5V	4-20mA	1 - 5V	
Non-linearity, Hysteresis & Repeatability	5 bar - 200 bar	,			
Non-intearity, hysteresis & Repeatability	< 5 bar	<	<1.00% FS		
Thermal Error	5 bar - 200 bar		V0.5% FS		
	< 5 bar	<	<1.00% FS		
Stability		<0.25% / Year			
Operating Temperature		-40°C to +105°C			
Proof Pressure		3 x FS			
Burst Pressure (absolute)		Lesser of 10 x FS or 100 bar			
Burst Pressure (gauge)			5 x FS		

Wetted Materials	304L & 316L SS, AL ₂ O ₃
Pressure/Temperature Cycles	>1.8*10 ⁶ Cycles (0 to FS at 8HZ; -40°C to + 105°C)
Thermal Shock	250 Cycles (105°C to -40°C, 0.5hr soaks at temp)
Vibration	144 hours (10 to 50Hz, 0g sinusoidal, 3 axes)
EMC Compatibility	100 V/m (80MHz to 1 GHz)
Humidity	250 hours (85°C and 90% to 95% RH)
Weight	<100g

Output Type	0.5 to 4.5V	4-20mA	1 - 5V
Supply Voltage	5 ± 0.5V	8 to 30V	8 to 30V
Supply Current	<5mA	N/A	<5mA
Output current	0.45mA Max	N/A	0.45mA Max
Output current	(Sink of Source)		(Sink of Source)
Response Time	<1mS	<1mS	<1mS
Reverse Polarity Protection	N/A	Yes	Yes

How to Order







Series HU

Pressure Transmitters

Hammer Union Pressure Transmitter

This is a 4-20mA output Hammer-Lug Union pressure transmitter. It is ATEX certified for use in Hazardous areas. IP68 rated and is EMC compliant to CE standards. It is available in the 1502 and 2202 union. The option of secondary The option of secondary containment for users that may experience high velocity pressure spikes is available upon request please contact us if you require this additional feature.



Key Features

- Ranges to 15,000psi (1000 bar)
- 0.25% accuracy
- 4-20mA two wire output
- IS ATEX certified
- Full RFI/EMC immunity compliance
- Sour service standard -Materials comply with NACE MR-DI-75 Revision 03 • Production testing
 - Fused ceramic technology
 - Shock and vibration tested

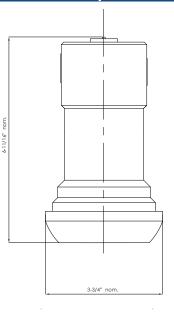
Applications

- Drilling instrumentation
- Mud logging systems
- MWD surface sensing
- Wellhead monitoring
- BOP control systems
- Subsea control systems
- Process systems
- Well Cementing

Input Specifications	
Pressure Range	0 - 15,000psi (1000bar)
Over Pressure	x1.5 of calibration pressure
Burst Pressure	x2.5 for 15,000 psi (1000 bar) range, > x3 on all other ranges
Reverse Polarity Protection	Yes
Electrical Excitation	12 to 28Vdc
	Fluids compatible with Duplex Stainless Steel UNS 32205/
Pressure Media	UNS31803 (SAF2205) to EN 1.4462,
	Ceramic (AL2O3), Inconel X750 and Perflouroelastomer

Output Specifications (@ Ambient Temperature)			
Span	16 mA		
Residual Unbalance	4mA		
Zero Setting Error	±1%/Span		
Span Set	±1%		
Lead Driving	800 ohm @ 28Vdc supply		
Long Term Stability	±0.1%/Span		
Non-linearity	See NLH		
Hysteresis	See NLH		
Repeatability	See NLH		
Combined NLH (+repeat)	<±0.25%/Span BFSL		

Dimensional Specifications







Series HU

Pressure Transmitters

Hammer Union Pressure Transmitter

Environmental Performance			
Operating Temperature	-22°F to +194°F		
Compensated Temperature	14°F to +194 °F		
Storage Temperature	-22°F to 212°F		
Process Temperature	194°F max		
Thermal Zero Shift (TZS)	±0.01%/Span/°F typical		
Thermal Span Shift (TSS)	±0.01%/°F typical		
IP Rating	68		



Physical Characteristics	
Pressure Port	1502 Male sub hammer Lug Union
	Units are directly compatible with WECO [®] 2"-1502 and 2202
Materials of Construction	Duplex Stainless Steel UNS 32205/UNS31803 (SAF2205) to EN 1.4462
Method of Installation	Hammer Lug Union
Electrical Connection	500Vac
Electrical Connection	6-Pin connector to MIL-C-24682 (10-6 POL)



Physical Characteristics	
Pressure Port	1502 Male sub hammer Lug Union
	Units are directly compatible with WECO [®] 2"-1502 and 2202
Materials of Construction	Duplex Stainless Steel UNS 32205/UNS31803 (SAF2205) to EN 1.4462
Method of Installation	Hammer Lug Union
Electrical Connection	500Vac
Electrical Connection	6-Pin connector to MIL-C-24682 (10-6 POL)

Approvals	
Intrinsic Safety	EEx ia IIC T4 (max temperature = 194°F)
EMC	Compliant to latest EMC standards.

Model Code Logic

W / 9 / 420 / 8 / X / X / X	XXXXP
-----------------------------	-------

Position	Code	Desciption
1: Pressure Ref. (Sealed Gauge)	W	Hammer Union Pressure Transmitter
2: Series	9	Basic submersible sensor with drain wire adaptor
3: Output	420	4-20mA
4: Pressure Port	8	2" Hammer Union Male-Sub
5: Secondary Pressure Containment	0	None
6: Electrical Connector	0	MIL C 24682
7: Pressure Range (psi)	350P	0-5,000 PSI
	400P	0-6,000 PSI
	700P	0-10,000 PSI
	1000P	0-15,000 PSI





Quality Pressure, Level, and Temperature Solutions

Series 460

Hydrostatic Level Transmitter

460 Hydrostatic Level Transmitter

With thousands of marine liquid level transmitters installed on all classes of ships, from military vessels to tankers, the design of the Series 460 marine level transmitter draws on NASC's comprehensive marine application experience. Fully compliant with the latest IEC and marine industry standards, the Series 460 rugged construction provides reliable and accurate monitoring of liquids in the harsh environments of shipboard tanks. The Measuring principle of pressure in the Series 460 hydrostatic level transmitter is a diaphragm and L.V.D.T. sensor with power and signal linearization via a remote mounted transmitter. This combines excellent responsiveness and long term stability. The liquid level transmitter has the sensitivity needed to accurately measure shallow tanks but will resist a five times nominal range overload without damage. The all welded level sensor is manufactured from high grade alloys specifically selected for their stability and corrosion resistance. A wide choice of fittings and the remotely mounted amplifier maximizes installation flexibility and serviceability. The Series 460 is maintenance free and contains no active electronic components. A factory sealed cable is supplied with a heavy-duty outer sheath of cross linked polymers, suitable for continuous immersion in sea water, fuels and hydrocarbons. An optional performance cable permits use of the sensor with extreme temperatures limits of -50°C to -148°C.



Key Features

- Designed and constructed specifically for marine applications with relevant industry body and type application and approvals.
- Full range of connections and sensor mounting options for side-of-tank or IP68 submersible installation.
- Compatible with all common marine liquids and cargo applications: seawater, fuel and lubricating oil, bilge water etc.
- Wide span with a high measurement accuracy, long term stability and exceptional pressure overload resistance.
- Remote transmitter provides ease of access for routine calibrations checks
- Robust construction gives reliable operation and low maintenance cost.

Specifications					
Calibrated Spans	From 0 - 300 H ₂ O		Diaphragms	Hastelloy C276	
	to 0 - 50m H ₂ O				
Range Adjustment	3:1 turndown of normal		Sensor Cable	Heavy duty TPE vented	
nunge / ujustiment	range				
Zero Adjustment	± 10% of calibrated		Sensors Operating	-40°C to 105°C (-40°C to +55°C for	
	span		Temperature	IS models)	
Overload	Minimum of 50 meters		Electronics Housing	IP65 GRP (NEMA 4) with internal	
ovenodu	or 5 x nominal range		Licetionies nousing	RFI screen (IP67 optional)	
Nominal Ranges	1, 2, 4, 8, 16, 32 and 50	Electronics Operating		-40°C to +55°C	
Nominal Naliges	meters H ₂ O		Temperature	-40 C t0 +55 C	
Signal Output	4-20mA DC2 wire		Accuracy	Better than ± 0.25% FRO	
Power Supply			Temperature	Less than 0.02@ per °C shift zero	
	12- 35 DC		Coefficient	and range	
Maximum Load	1000 ohms at 30V		Sensor Body	316L stainless steel	



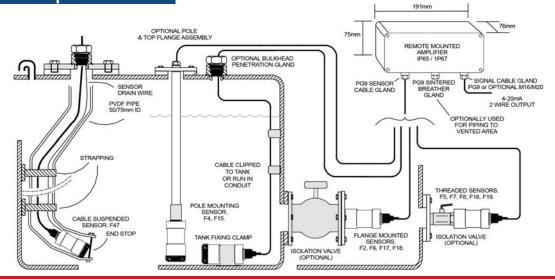
Hydrostatic Level Transmitter

Model Code Logic

Position Code		Description			
1: Transmitter	460 F47	Sensor with RT168 remote transmitter 4-20mA output			
		Basic submersible sensor with drain wire adaptor			
	F2	DN25 PN16 flanged mounting			
	F3	Tank fixing clamp			
	F4	Pole adaptor fitting threaded 1/2" BSP female			
	F5	Threaded process connection 1/2" BSP Male			
2: Process	F6 F7	1" ANSI 150lb flanged mounting to BS1560			
Connection		1/2" NPT male			
	F8	3/4" BSP female running nut			
	F15	Welded pole assembly			
	F16	3/4" BSP female running nut NRV plunger			
F17		DN40 PN16 flanged mounting			
	F18	DN50 PN16 flanged mounting			
	F19	Fixing clamp @ 1/2" BSP female pole adaptor			
	H1	1m H ₂ O			
	H2	2m H ₂ O			
3: Transmitter	H4	4m H ₂ O			
Maximum	H8	8m H ₂ O			
Pressure H16		16m H ₂ O			
	H32	32m H ₂ O			
	H50	50m H ₂ O			
4: Cable	Р	Standard 3m cable length			
	Х	Custom cable length on request (specify length X meters)			
5: Cable Length	DW X	Drain wire length in meters (F47 model only)			
6: Range	х	Transmitter 4-20mA configured range in X m H ₂ O			
7: Remote	9	PG9 cable gland for signal cable (standard)			
Electronics	M16	M16 cable gland for signal cable (optional)			
Cable Gland M20		M20 cable gland for signal cable (optional)			
	IS	Hazardous area installation (ATEX IS approved)			
8: Approvals NA		Safe area installation			

460 / F47 / H8 / P / DW 3 / 7.5 / M20 / IS

Dimensional Specifications





Density Transmitter

290 Density Transmitter

NASC has designed and developed the Series 290 as a density transmitter specifically for use in the onshore and offshore oil and gas market. It is the first fluid density transmitter that is fully submersible for use on drilling mud, slurry, cement and completion fluids. This density transmitter is rugged yet accurate, providing reliable measurement in the mixing or holding tanks and return sumps. The Series 290 transmitter measures density as a function of differential pressure. Each unit has two pressure sensitive diaphragms mechanically separated by a fixed distance on a mounting pole. The distance between the transmitters two diaphragms provide a value of the liquids specific gravity. The diaphragms are protected by enclosure cages to prevent damage from the mechanical impact or debris. These are easily removable for cleaning. The density measurement is made online in real time and is fully compensated for changes in fluid temperature.



Specifications

Construction: Body assembly 316L Stainless steel with diaphragms Hastelloy C276. Mounting: Submersed in tank. Measuring range (Factory calibration) • 6.67 to 20 pounds / US Gallon

• 0.8 to 2.4 SG / 0.8 to 2.4 kg/l

Customer specific calibration within this range on request.

Minimum density measurement:

- 6.25 Pounds / US Gallons
- 0.75 SG / 0.75 kg/l

Sensor capillary fill fluid: Silicon oil Operating temperature -10° to 80° C Hazardous area rating (option) EEx ia IIC T6

Key Features

- Density transmitter for drilling mud, slurry, cement and completion fluids.
- Designed to be installed in mixing recirculation and storage tanks.
- Simple and flexible pole mounting installation from the top of the tank.
- Remote transmitter suitable for installation in hazardous area.
- Robust and reliable construction for arduous duty and extended service.
- Sensors protected by stainless steel cage easily removed for cleaning.
- Temperature compensated measurement with low thermal sensitivity.
- 2 Wire 4-20mA output signal calibrated to suit the application.

Amplifier Module

Construction: Wall mount GRP enclosure Enclosure rating: IP65 (IP67 option) / NEMA 4X Power supply: 12 to 35 Vdc Signal output: 4 to 20mA dc. 2 wire

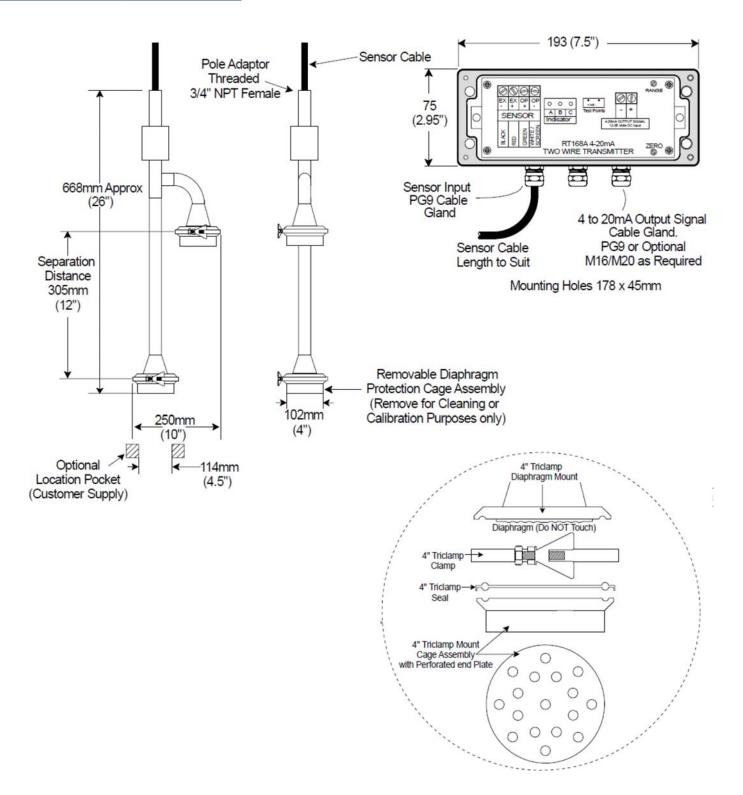
Performance

Accuracy ± 0.25% of set span Temperature coefficient: ± 0.02% set span / °C



Density Transmitter

Dimensional Specifications





Resistance Temperature Detectors

RTD Series



These RTDs are specifically designed for use in two different process temperature ranges and they provide accurate and repeatable temperature measurement through a range of -328° to 1112°F (-200° to 600°C). Low range wire wound RTDs -328° to 400°F (-200° to 204°C) and low range thin film RTDs -40° to 400°F (-40° to 204°C) are constructed using silver plated copper internal leads, teflon, and other suitable wire insulations with potting compounds to resist moisture penetration. High range RTDs -328° to 1112°F (-200° to 600°C) are constructed with nickel internal leads inside swaged MgO insulated cable to allow higher temperature measurements at the RTD element and to provide higher temperature lead protection along the sheath.

- 1) RTD type (low temp/high temp, accuracy and element type)
- 2) Sheath diameter
- 3) Element connection (2, 3 or 4 wire)
- 4) Sheath length (insertion length)
- 5) Fittings/no fittings/sheath bend options
- 6) Electrical connections and terminations
- 7) Wire type and terminations

View our detailed literature online on how to order, email or call for customer support. Custom built assemblies with non-standard specifications are available upon request.

*Please call for complete model code and description.



Thermocouples

T/C Series



The millivolt potential that is created in the thermocouple conductors differs depending on the materials used. Some materials make better thermocouples than others because the millivolt potentials created by these materials are more repeatable and well established. These thermocouples have been given specific type designations such as Type E, J, K, N, T, B, R and S. The type of T/C used also depends on temperature monitored and environment.

As a general rule, industrial thermocouples can be made to withstand higher temperatures and come in a wider variety of thermocouple types. MgO thermocouples are flexible and have a wider selection of measurement junction configurations.

An MgO thermocouple consists of a thermocouple element encased in a metal sheath and hard-packed with magnesium oxide mineral insulation. Thermocouple sheaths are fully annealed and can be formed into different configurations (minimum bend radius is twice the outer diameter of the sheath). The measuring junction can also be sealed from the environment, reducing the potential for contamination issues.

How to Order (see order form on line, email or call for application assistance)

1) Type of thermocouple (J, K, T, etc.) and single or duplex element

- 2) Sheath diameter
- 3) Sheath material
- 4) Measuring junction (grounded, ungrounded, etc.)
- 5) Fittings/ no fittings/ sheath bends
- 6) Sheath terminations
- 7) Electrical transitions
- 8) Lead wire materials, transitions and length

Type Application Information

- E Recommended for continuously oxidizing or inert atmospheres. Sub-zero limits of error not established. Highest thermoelectric output of the common thermocouple types.
- J Suitable for vacuum, reducing or inert atmospheres, oxidizing atmospheres with reduced life. Iron oxidizes rapidly above 1000°F so only heavy gauge wire is recommended for high temperature.
- K Recommended for continuous oxidizing or neutral atmospheres. Mostly used above 1000°F (538°C). Subject to failure if exposed to sulfur. Preferential oxidation of chromium in positive leg at certain low oxygen concentrations causes "green rot" and large negative calibration drifts most serious in the 1500 1900°F (816 1038°C) range.
- N Can be used in applications where Type K elements have shorter life and stability problems due to oxidation and the development of "green rot".

T Usable in oxidizing, reducing, or inert atmospheres as well as vacuum. Not subject to corrosion in moist atmospheres.

- R & S Recommended for high temperature. Must be protected in a non-metallic protection tube and ceramic insulators. Type R is used in industry, Type S in the laboratory
- B Same as R & S but has a lower output. Also, has a higher maximum temperature and less susceptible to grain growth.

*Please call for complete model code and description.



Thermocouples

T/C Series

Table 1: Thermocouple Types, Temperature Ranges, Limits of Error

Stand	ard			Special	
Туре	Materials	Temperature Range	Limits Of Error	Temperature Range	Limits Of Error
J	Iron/Consta		45 (2.2.C)		
		32 to 559F (0 to 293C) 550 to 1400F (293 to 760C) -328 to -166F (-200 to -110C)	4F (2.2C) 0.75% 2%	32 to 527F (0 to 275C) 527 to 1400F (275 to 7	2F (1.1C) 60C) 0.40%
Κ	Chromel/Al	umel			
		-166 to 32F (-110 to 0C)	4F (2.2C)		
		32 to 559F (0 to 293C) 4F (2.20		32 to 527F (0 to 275C)	2F (1.1C)
		559 to 2282F (293 to 1250C)	0.75%	527 to 2282F (275 to 12	250C) 0.40%
т	Copper/Co	nstantan			
	coppei, co	-328 to -89F (-200 to -67C)	1.50%		
		-89 To 32F (-67 to 0C)	1.8F (1C)		
		32 to 271F (0 to 133C)	1.8F (1C)	32 to 257F (0 to 125C)	0.9F (.05C)
		271 to 662F (133 to 350C)	0.75%	257 to 662F (125 to 350	DC) 0.40%
E	Chromel/Co	onstantan			
-		-328 to -89F (-200 To -67C)	1%		
		-274 to 32F (-170 to 0C)	3.1F (1.7C)		
		32 to 644F (0 to 340C)	3.1F (1.7C)	32 to 482F (0 to 250C)	1.8F (1C)
		644 to 1652F (340 to 900C)	0.50%	482 to 1652F (250 to 9	00C) 0.40%
N	Nicrosil/Nis	il			
		32 to 559F (0 to 293C)	4F (2.2C)		
		559 to 2300F (293 to 1260C)	0.75%		
R	Platinum/P	latinum- 13% Rhodium			
IX.	i latinarii, i	32 to 1112F (0 to 600C)	2.7F (1.5C)	32 to 1112F (0 to 600C)) 1.1F (0.6C)
		1112F to 2642F (600 to 1450C		112F to 2642F (600 to 1	. ,
_					
S	Platinum/P	latinum-10% Rhodium			
		32 to 1112F (0 to 600C) 2.7F	(1.5C)	32 to 1112F (0 to 600C)	
		1112F to 2642F (600 to 14500	.) 0.25%	112F to 2642F (600 to 1	450C) 0.10%
В	Platinum/P	latinum-30% Rhodium			
		1472 to 3092F (800 to 1700C)	0.50%	1472 to 3092F (800 to 1	700C)



Thermowells

TW Series



A thermowell acts as a barrier between a process medium and the sensing element of a temperature measuring device. It protects against corrosive process media, as well as media contained under pressure or flowing at a high velocity. A thermowell also allows the sensing element to be removed from the application while maintaining a closed system.

Our thermowells are available in 316S.S. and 304S.S.. Other materials available upon request.

How to Order

- 1) Process connection: Flanged, threaded, limited space, socket-weld or weld-in type.
- 2) Style: Stepped, straight, tapered, lag, lag straight or lag tapered.
- 3) Bore(inches): .260, .375, .385, .390, .515, .702 or special.
- 4) Material: Brass, C.S., 304 S.S., 316 S.S., Monel, titanium, hastelloy C, etc.
- 5) Stem length (inches): L or U dimension

View our detailed literature on line on how to order, email or call for customer support.

