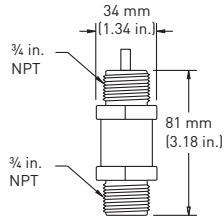
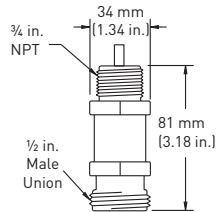


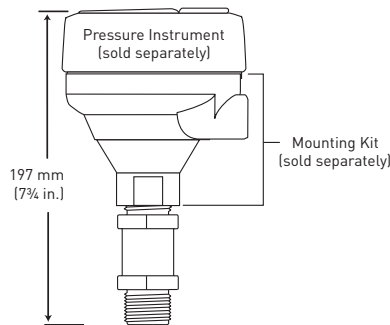
Dimensions



3-2450-1X, -2X, -5X



3-2450-3X, -4X, -7X



3-8250, 3-8450

Model 2450 Ordering Notes

Any sensor can be mounted with an instrument in an integral configuration by doing the following:

1. Order Integral adapter kit PN 3-8052 or 3-8052-1 (sold separately) to connect the instrument (sold separately) directly on to the sensor.
2. Order an instrument (sold separately). The following instrument part numbers are compatible with the 2450 for integral mounting: 3-8450-1, 3-8450-2, 3-8250-2
3. Union mount version installs into pipe w/end connector and union nut. See Installation and Wiring section for more information on parts required.

Application Tips

- These sensors can also be used for tank level measurements.
- For submersible sensor mounting, always use a water tight conduit and a cable gland to prevent moisture intrusion.
- Cable end of sensor must be exposed to atmospheric pressure.
- To extend the cable, use a 3-conductor shielded cable & junction box.

Specifications

General

Output: Digital (S³L) or 4 to 20 mA

Accuracy:

- For all pressure ranges: $\pm 1\%$ of full scale @ 25 °C
- 0 to 10 psig: $\pm 1\%$ of reading when unit is field calibrated

Response Time: <100 ms

Sensing-End Connection:

- 3/4 in. NPT male thread
- 1/2 in. union male thread (requires end connector and union nut)

(See installation section for end connector and nut recommendation)

Cable-end connection:

- 3/4 in. NPT male thread

Wetted Material

- Sensor housing: PVDF
- Diaphragm: Ceramic
- Diaphragm seal: FPM

Electrical

Power Requirements:

- Digital (S³L): 5 to 6.5 VDC <1.5 mA
- 4 to 20 mA: 12 to 24 VDC $\pm 10\%$, regulated

Cable Type:

3 cond. + shield, 22 AWG, PVC jacketed, Blk/Red/White/Shld

Cable Length:

- 4.6 m (15 ft)
- 15.2 cm (6 in.)

Digital (S³L) Output:

- Serial ASCII, TTL level 9600 bps.
- Reverse polarity and short circuit protected.

Electrical (continued)

4 to 20 mA Output:

- Accuracy: $\pm 32 \mu A$
- Resolution: $< 5 \mu A$
- Span: 4 to 20 mA factory calibrated to operating ranges shown below
- Max. Loop Impedance: 100 Ω @ 12 V
325 Ω @ 18 V
600 Ω @ 24 V

Max. Temperature/Pressure Rating

Operating Temp: -15 °C to 85 °C

(5 °F to 185 °F)

Storage Temp.: -20 °C to 100 °C

(-4 °F to 212 °F)

Operating Pressure:

- -XU: 0 to 0.7 bar (0 to 10 psig)
- -XL: 0 to 3.4 bar (0 to 50 psig)
- -XH: 0 to 17 bar (0 to 250 psig)

Vacuum Range:

- XU -0.1 to 0.7 (-1.5 to 10 psi)
- XL -0.41 to 3.4 bar (-6 to 50 psi)
- XH -0.96 to 17.2 bar (-14.6 to 250 psi)

Proof Pressure:


- -XU: 1.4 bar (20 psig)
 - -XL: 5.2 bar (75 psig)
 - -XH: 20.7 bar (300 psig)
- Burst Pressure: 82 bar (1,200 psig)

See Temperature and Pressure graphs for more information.

Standards and Approvals

- CE
- Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management
- China RoHS

Ordering Information

Sensor Part Number			
3-2450	Pressure Sensor		
	Output, Process Connection and Cable Length - Choose One		
	-1	Digital (S³L), ¾ in. male NPT, 4.6 m (15 ft) cable	
	-3	Digital (S³L), ½ in. male union, 4.6 m (15 ft.) cable	
	-5	Current (4 to 20 mA), ¾ in. male NPT, 4.6m (15 ft) cable	
	-7	Current (4 to 20 mA), ½ in. male union, 4.6 m (15 ft) cable	
	Operating Pressure Range - Choose One		
	U	0 to 10 psi	
	L	0 to 50 psi	
	H	0 to 250 psi	
	↓		
3-2450	-1	L	Example Part Number

Mfr. Part No	Code	Mfr. Part No	Code
3-2450-3U	159 000 683	3-2450-7L	159 000 908
3-2450-7U	159 000 906	3-2450-1H	159 000 026
3-2450-1L	159 000 024	3-2450-5H	159 000 909
3-2450-3L	159 000 682	3-2450-7H	159 000 910
3-2450-5L	159 000 907		

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
5523-0322	159 000 761	Sensor cable (per ft), 3 cond. plus shield, 22 AWG
3-8052	159 000 188	3/4 in. Integral mounting kit
3-8052-1	159 000 755	3/4 in. NPT mount junction box with one liquid tight connector and cap with junction terminals
3-9000.392-1	159 000 839	Liquid tight connector kit, NPT (1 connector)
3-9000.392-2	159 000 841	Liquid tight connector kit, PG 13.5 (1 connector)
3-0250	159 001 538	USB to digital (S ³ L) configuration/diagnostic tool