Valueline

High accuracy pressure transmitter

Features:

· UL / cUL certified intrinsically safe for installation in hazardous locations

· NSF/ANSI 61 and 372 certified construction for use in drinking water applications

· 0.1% static accuracy, 0.25% Total Error Band (TEB) accuracy

· 4...20mA models include guaranteed lightning protection at no additional cost

· Durable 316L stainless steel construction, optional titanium

· 2-year warranty covers defects in materials and workmanship

· Standard outputs simplify interface to controls, data collection, and telemetry systems

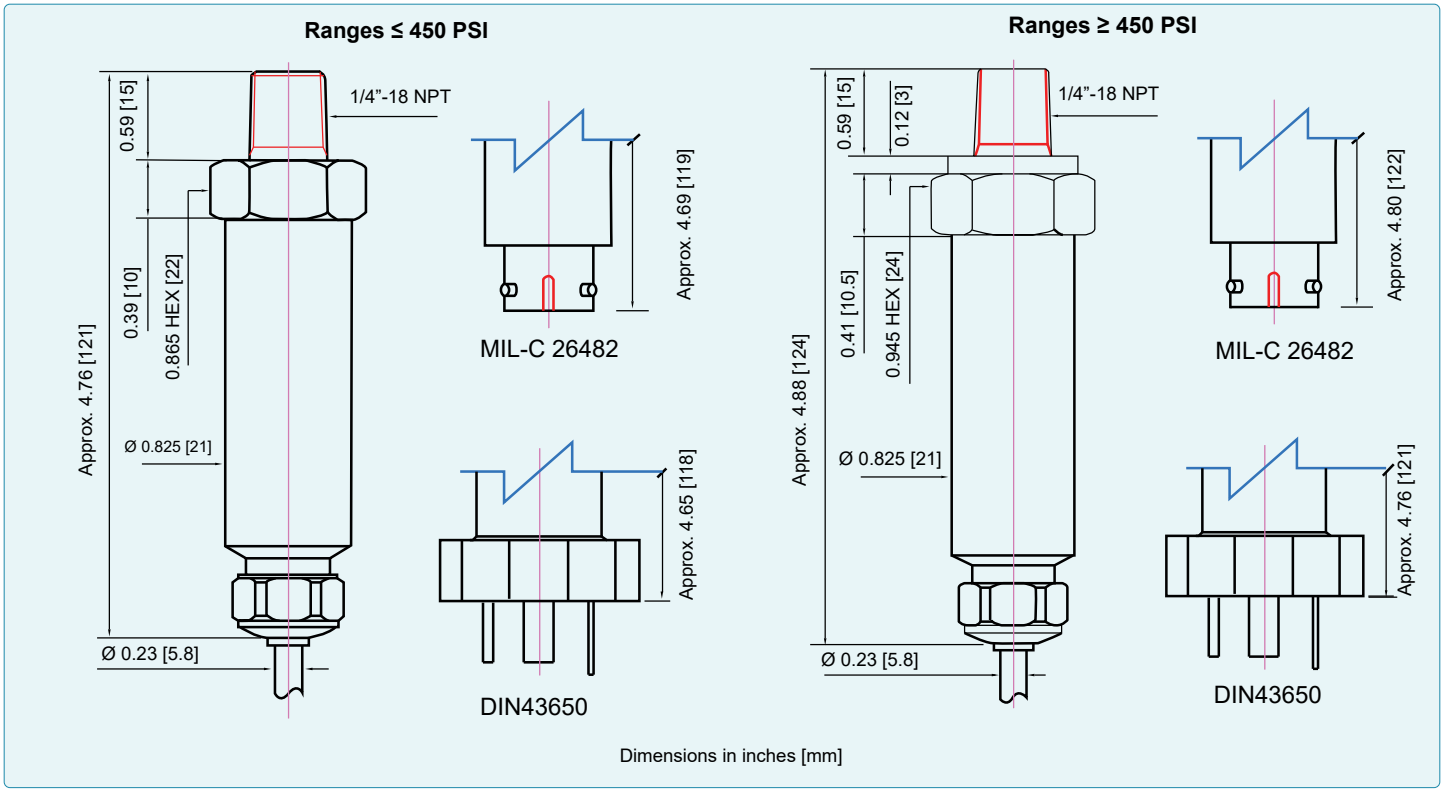
· Various electrical connections for easy integration into new and existing systems

· IP68-rated cabled versions suitable for submersion

· 2021 IIJA Build America, Buy America-compliant configurations available

· Standard 3-day lead time

CE CLASSIFIED UL WATER QUALITY c UL us



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Subject to alterations
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Valueline - SPECIFICATIONS

Pressure Ranges[1,2,3,4]		
Relative	Infinite between 0...2 and 0...450 PSIG	
Absolute	Infinite between 0...2 and 0...450 PSIA	
Sealed	Infinite between 0...500 to 0..15,000 PSIS	
Proof pressure	Ranges ≤ 1500 PSI FS	3X FS
	Ranges > 1500... ≤ 9000 PSI FS	2X FS
	Ranges > 9000... ≤ 15,000 PSI FS	1.2X FS

1. PSIG = Gage; Zero-point referenced to local atmospheric pressure.
   PSIA = Absolute; Zero-point set at hard vacuum.
   PSIS = Sealed Gage; Zero-point set at 1 bar absolute (14.504 PSIA).

2. Zero-point can be suppressed or elevated for special applications.

3. Intermediate ranges are realized by deranging the analog output from the next highest basic range: 1, 3, 10, and 30 bar (relative) 1, 3, 10, and 30 bar (absolute), and 100, 300, and 1000 bar (sealed). Pressure range may be specified in units of lb/in2(psi), inches WC or feet WC. KELLER America uses the International Standard conversion of 2.3067 feet WC/psi.

4. Maximum pressure for IS-approval is 2,000 psis

Accuracy[5]		
	Standard	Optional
Static	±0.1% FS	±0.05% FS
Total Error Band	±0.25% BR	±0.1% BR

5. Static accuracy includes the combined effects of non-linearity, hysteresis, and non-repeatability at room temperature (25°C). Total Error Band (TEB) includes the combined effects of non-linearity, hysteresis, and non-repeatability as well as thermal dependencies, over the compensated temperature range, expressed as a percentage of the basic range (BR).

The calculation for maximum TEB on intermediate ranges (IR) is: $TEB_{IR} = (BR/IR) \times TEB_{BR}$

Outputs	
Current	4-20 mA - IS-approved
	4-20 mA Non-IS (with or without lightning protection)
Voltage[6]	0-5 VDC, 0-10 VDC

6. Other voltage output options available on request.

Connection				
Process	1/4”-18 NPT Male[7]			
Electrical	std. 10 ft. Cable[8]	DIN43650[9]	mPm393[9]	MIL-C 26482[10]
Wiring:				
4-20 mA - IS-approved	RED: +Vcc BLACK: OUT/GND	Not Available	Not Available	Not Available
4-20 mA Non-IS (with or without lightning protection)	BLACK: +Vcc WHITE: OUT/GND	PIN 1: OUT/GND PIN 3: +Vcc PIN 4: CASE	PIN 1: OUT/GND PIN 3: +Vcc	PIN A: +Vcc PIN C: OUT/GND
Voltage	BLACK: +Vcc WHITE: GND RED: +OUT	PIN 1: GND PIN 2: +OUT PIN 3: +Vcc PIN 4: CASE	PIN 1: GND PIN 2: +OUT PIN 3: +Vcc	PIN A: +Vcc PIN B: +OUT PIN C: GND

7. Other process connections available on request. Consult the factory.
8. IS-approval appilies only to Valueline transmitters with cable
9. Mating connector supplied at no extra cost.
10. At extra cost, includes mating connector.

Valueline - SPECIFICATIONS

Electrical			
	Supply[11]	Current	Load resistance
4-20mA - IS-approved (includes lightning protection)	11...30 VDC	3.2-22 mA	<(Supply-11V)/0.022A
4-20 mA - w/o lightning protection	8...32 VDC	3.2-22 mA	<(Supply-8V)/0.022A
0-5VDC	8...32 VDC	< 8 mA	>5k ohm
0-10VDC	13...32 VDC	< 8 mA	>5k ohm
Start-up time	250 ms		

11. Nominal values may be higher depending upon cable length. Internal lightning protection increases the minimum-required supply voltage from 8VDC to 11VDC, due to internal resistance of the surge protectors. In addition, cable resistance (~76Ω / 1000ft) adds to the supply requirement. In order to insure proper system operation, calculate the minimum required supply voltage (at the source) as follows:

For internal only protector (standard with 4-20mA output):
MINIMUM SUPPLY VOLTAGE = 11 + 0.022 (CABLE LENGTH x 0.076) VDC

For two-part (internal+external) system (recommended):
MINIMUM SUPPLY VOLTAGE = 11.6 + 0.022 (CABLE LENGTH x 0.076) VDC

Environmental	
Protection Rating	
Cable	IP68
mPm393	IP65
DIN43650	IP65
MIL-C 26482	IP65
Operating Temp.	-10...60° C (Cable) -30...100° C (Connector)
Compensated Temp.	-10...80° C
Wetted Materials	316 L Stainless Steel, optional titanium

Certifications		
4-20 mA IS-Approved	UL / cUL	Class I, Division 1, Groups A, B, C, and D Class II, Division 1, Groups E, F, and G Class III
All versions	CE	EN 61000-6-1 to 6-4 / EN 61326-1 / EN 61326-2-3
	Shock	20g (11ms)
	Vibration	20g (5-2KHz, max. amp ±3mm per IEC68-2-6)
	NSF / ANSI[12]	61, 372

12. NSF/ANSI 61 and 372 certification applies to PE & EPDM construction material option, which is standard on this instrument unless otherwise specified.

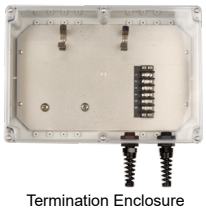
Optional Accessories


1/2" NPT Conduit Fitting


Drying Tube Assembly


Bellows Assembly

Process Meter


Termination Enclosure

Signal Line Surge Protector

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