WIKA

Submersible Liquid Level Transmitters LS-10, LH-10



Applications

Level measurement in water and wastewater treatment plants, wells, holding tanks, wet wells, rivers

Special Features

- Ranges from 50inWC to 400psi
- Rated IP 68 for permanent submersion
- Hastelloy case available for aggressive media
- 4-20 mA 2-wire output signal, others available
- Lightning protection available
- Cable supports over 220 pounds of strain

Description

The LS-10 liquid level transmitter is designed for economical and reliable performance in a wide variety of level measurement applications. The LS-10 provides a signal output of 4-20mA and an accuracy of 0.25% of span. Standard stocked pressure ranges are assembled with any length cable for fast delivery.

The high performance Model LH-10 provides 0.125% accuracy and is available with many custom features for special requirements. LH-10 options include lightning protection, temperature measurement, special output signals, plus FEP cable and Hastelloy construction for aggressive media.

The LH-10 is available with a low power 0.5-2.5V output signal and 5VDC supply voltage. This is ideal for solar or battery powered installations.

The LH-10 includes a dual cable entry design that prevents ingress of moisture into the electronics even if the cable is damaged. Both models feature watertight vented cable that can withstand over 220 pounds of strain. This allows the transmitter to be supported without any additional cabling.

Compensation for atmospheric pressure changes is accomplished through a vent tube in the cable. Many accessories, including cable clamps, desiccant drying cartridges, additional weights, and junction boxes are available for specific installation requirements. Both models can be equipped with the Level-Guard[™] attachment for protection in difficult environments.



Left: LS-10 level transmitter Center: LH-10 high performance level transmitter Right: LH-10 with optional Hastelloy case and FEP cable



Optional WIKA LevelGuard[™] Anti-clog attachment for submersible level transmitters. For use in lift stations, wet wells and other difficult level applications. For more information request bulletin LG-1.

Datasheet: LS-10 / LH-10

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Specifications

Model LS-10 / LH-10

| Pressure ranges | | | | | | | | | | | | |
|---|--------------------|--|-------------------|---------------------|-------------------|-----------------------|-------------|---------------------|----------------------|------------------|---------------------|----------|
| LS-10 or LH-10 pressure ranges | 100inWC | 150inW0 | 25 | 0inWC | 400inWC | 5psi | 10psi | 15psi | 25psi | 30psi | 50psi | 100psi |
| Maximum pressure* | 30psi | 30psi | |)psi | 72psi | 30psi | 60psi | 72psi | 145psi | 145psi | 240psi | 500psi |
| Burst pressure** | 35psi | 35psi | |)psi | 87psi | 35psi | 70psi | | | 170psi | 1 . | 600psi |
| LH-10 pressure ranges ¹⁾ | 50inWC | 160psi | |)0psi | 250psi | 300psi | 400psi | | | | | |
| Maximum pressure* | 14psi | 1160ps | | 60psi | 1160psi | 1160psi | 1160psi | | | | | |
| Burst pressure** | 29psi | 1390ps | | 390psi | 1390psi | 1390psi | 1390psi | | | | | |
| ¹⁾ Maximum range for LH-10 with FE | | | | | | | | | | | | |
| | | | Mode | I LS-10 |) | | | Model I | LH-10 | | | |
| Materials | | | | | | | | | | | | |
| Body | | | Stainle | ess ste | el | | | Stainles | s steel | {H | astelloy} | |
| Pressure connection and diaphragm | | | Stainle | ess ste | el | | | Stainles | s steel | {H | astelloy} | |
| Protective cap | | | PA | | | | | PA | {Stair | nless stee | el} {Haste | lloy} |
| Cable | | | PUR (| polyure | thane) | | | PUR | - | | si maxim | •• |
| Power supply U _B | DC V | | | J _R ≤ 30 | , | | | 10 < U _B | | | | , |
| · · · · · · · · · · · · · · · · · · · | | | | -8 | | | | | | 10 V o | utput sigi | nal) |
| | | | | | | | | • | | | red opera | , |
| | | | | | | | | | | 5 2.5 V | | , |
| Output signal | | | 4. 2 | 0 mA, 2 | -wire | | | | mA, 2-wi | | , | |
| | | | 1 2 | • • • • • , Z | | | | | mA, 3-wi | | | |
| | | | | | | | | | /, 3-wire} | | | |
| | | | | | | | | | V, 3-wire | | | |
| | | | | | | | | | 2.5 V, 3-v | | | |
| | | | | | | | | • | | red oper | ation ³⁾ | |
| | | | | | | | | | | IEC 6075 | | |
| | | | | | | | | • | | tputs on | | |
| | ²⁾ Powe | r supply 5 | 5 10 V | DC with | ontional lic | ghtning prot | ection | | signal ou | ipuis on | request | |
| | | | | | ≥ 0 100inW | | conorr | | | | | |
| Pt 100 RTD temperature sensor | / want | | | rungeo | 2010000 | 0 | | | | | | |
| | mA | | Not av | ailable | | | | 3 | | | | |
| | mA | | Not av | | | | | 1 | | | | |
| Maximum load R | | | | | | | | | | | | |
| Current output signal | | | R < (l | J - 10V |)/002A- | (0.043 Oh | m x cable | lenath in | feet) (R i | n Ohms a | and Uin V | /DC) |
| Voltage output signal | | | - | -в | ,, | (| | $R_{A} > 10$ | | | | , |
| Response time (10 90 %) | ms | | ≤1 | | | | | ≤ 1 | • | | | |
| Isolation voltage | DC V | | 500 ⁴⁾ | | | | | 500 ⁴⁾ | | | | |
| loolation voltage | | Class 02 r | | upply (lo | w voltage a | and low curr | ent max 1 | | | | | |
| | | in fault co | | | | | | | | | | |
| Accuracy ⁵⁾ | % of s | | · · · · · | , 6 (BFSL |) | | | < 0.125 | 6) (BFSL |) | | |
| roodrady | % of s | • | | • | -, point calit | oration) | | ≤ 0.25 ⁶ | • | -, ooint cali | bration) | |
| | | | | | | | | 2 0.20 | (| Joint Gai | bradiony | |
| | | ⁵⁾ Including linearity, hysteresis and repeatability. Limit point calibration method performed in vertical mounting position with pressure connection facing down. | | | | | own | | | | | |
| | | ⁶⁾ For pressure ranges < 0 100inWC accuracy ≤ 0.25% of span (BFSL) | | | | | | | | | | |
| | | 5% of spa | • | | | uoy <u><</u> 0.207 | o or opan (| BI 02) | | | | |
| Repeatability | % of s | | ≤ 0.05 | | brationy | | | ≤ 0.05 | | | | |
| 1-year stability | % of s | • | | | erence co | nditions) | | | (at rafara | nce conc | ditions) | |
| Permissible temperature of | 70 01 3 | pan | <u> </u> | larien | | nanionsj | | ≥ 0.2 | arierere | | inions) | |
| Medium ⁷⁾ | | | 11 | . +122 ° | ~ _ | 10 +50 | °C | +14 + | 100 °E | 10 | +50 °C | 、 |
| | | | T 1 4 | . +122 | · [- | 10 +30 | 0 | | | | | |
| | | | | | | | | - | | | 85 °C) wit | |
| Storago 7) | | | 22 | 170 0 | E . | 30 | °C | | ble optio ₁176 ºE | | . 00. 94 | ` |
| Storage ⁷⁾ | 7) AL | omeli | | +176 ° | | 30 +80 ' | | | +176 °F | | +80 °C | |
| Componented tomporatives recent | AISO (| Joinplies \ | | +50 °C | | C, Class 4 | | | torage, 1i ⊦50 °C | | | °E |
| Compensated temperature range | vin | | 0 | +50 0 | + | 32 +122 | 2 F | 0+ | -30 C | +32 | 2 +122 | 1. |
| Temperature coefficients (TC) with | | | | | | | | | | | | |
| compensated temperature range: | | 205 | | | | -001 | 10141 | 1 f 0 f | | | | |
| Mean TC of zero | % of s | | <00 | / 10 1/ | | ≤ 0.2 / | 10 K (< 0 | | | | | |
| Mean TC of range | % of s | pan | ≤ 0.2 / | IUK | | | | ≤ 0.2 / 1 | UK | | | |



| 0 | alfia | |
|-----|-------|--------|
| SDE | | ations |

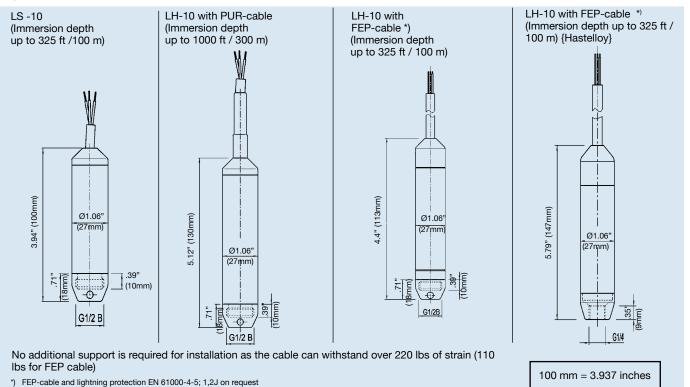
Model LS-10 / LH-10

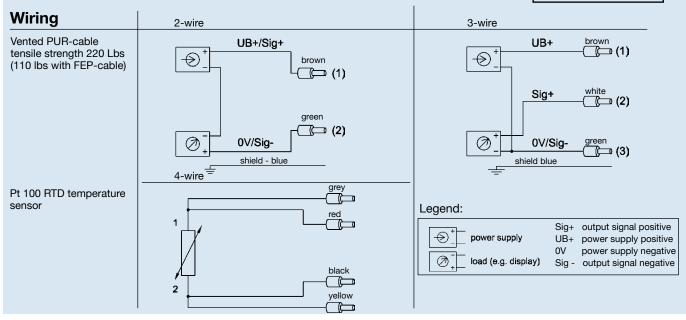
| | 1 | | | | | |
|-------------------|-------------|--|--|--|--|--|
| CE-conformity | | 89/336/EWG interference emission and immunity see EN 61 326 | | | | |
| | | Interference emission limit class A and B | | | | |
| Wiring protection | | Protected against reverse polarity, overvoltage and short circuiting | | | | |
| | | on the instrument side | | | | |
| | | {Lightning protection EN 61000-4-5; 1,2J} | | | | |
| Weight | | | | | | |
| Level Transmitter | lb | Approx. 0.4 | | | | |
| Cable | oz per foot | Approx. 1.0 | | | | |
| Additional weight | lb | Approx. 1.1 | | | | |

Items in curved brackets { } are optional extras for additional price.

Dimensions in inches (mm)

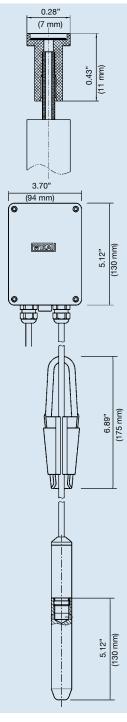
Ingress Protection NEMA 6P (IP 68 per IEC 60 529)







Accessories Dimensions in inches (mm)



Vent tube filter Part# 7193131 The optional Teflon vent tube filter protects the vent opening and protects against the entry of dirt and moisture.

Cable junction box Part# 2459686 The cable junction box is rated NEMA 4 / IP 67 and is suitable for mounting outside tanks or shafts or inside dry control boxes. Can be wall or DIN rail mounted.

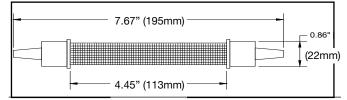
Cable clamp Part# 2074257 The cable clamp secures the cable without bending or kinking that can damage the cable vent tube or outer jacket.

Additional weight Part# 1524399 The additional weight replaces the protective cap and helps to stabilize the transmitter in turbulent conditions. Weight: approximately 1.1 lb, 316ss.

Desiccant drying cartridge

part # 9836700

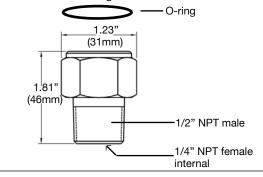
The desiccant drying cartridge helps prevent moisture buildup inside the vent tube.



NPT adapter

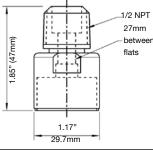
Part# 1631322

The 316 ss G1/2 adapter replaces the removable protective cap and converts the threads to 1/2"NPT male external, 1/4" female internal threads. Includes O-ring.



Conduit adapter Part# 2289718 316 ss 1/2" NPT male cable conduit adapter. Must be factory installed.





LevelGuard[™] Anti-clog attachment



Part # 50077091

The stainless steel LevelGuard[™] attachment must be factory installed and calibrated.

LS-10 Submersible Liquid Level Transmitter - 100 inWC to 100 psi

4-20 mA 2-wire

Standard Features

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- Signal Output:
- Supply Voltage:
- Process Connection:
- Electrical Connection:

10-30 VDC G1/2B with removable protective cap Vented polyurethane cable (must specify length)

Important Ordering Instructions: Specify the <u>level transmitter part number</u> and <u>cable length part number</u> corresponding to the total required cable length. For example, a 100 inWC level transmitter with 40 feet of cable should be ordered as 4262761/4347931 with a list price of \$436.50

Pressure Range Part Number AND Cable Length Part Number must be specified on every order!

| Ouble Lenge | | | | | |
|-------------|---------|----------|-------------|------------------------|---------------------|
| | | CABLE L | ENGTH SELEC | TOR | |
| Length | Part# | Length | Part # | Length | Part # |
| 5 feet | 4347868 | 60 feet | 4347974 | 130 feet | 4348075 |
| 10 feet | 4347876 | 65 feet | 4347982 | 140 feet | 4348083 |
| 15 feet | 4347885 | 70 feet | 4347990 | 150 feet | 4348091 |
| 20 feet | 4347893 | 75 feet | 4348006 | 160 feet | 4348105 |
| 25 feet | 4347906 | 80 feet | 4348016 | 170 feet | 4348113 |
| 30 feet | 4347915 | 85 feet | 4348024 | 180 feet | 4348121 |
| 35 feet | 4347923 | 90 feet | 4348032 | 190 feet | 4348139 |
| 40 feet | 4347931 | 95 feet | 4360903 | 200 feet | 4348147 |
| 45 feet | 4347949 | 100 feet | 4348040 | 250 feet | 4364479 |
| 50 feet | 4347957 | 110 feet | 4348058 | 300 feet | 4366340 |
| 55 feet | 4347966 | 120 feet | 4348066 | Contact factory for le | ngths over 300 feet |

Cable Length Part Numbers

LS-10 standard ranges

| Gauge Ranges | | | | |
|--------------|---------|--|--|--|
| Desci | ription | | | |
| Range | Part # | | | |
| 0-100 inWC | 4262761 | | | |
| 0-150 inWC | 4262779 | | | |
| 0-250 inWC | 4262787 | | | |
| 0-400 inWC | 4262795 | | | |
| 0-5 psi | 4262809 | | | |
| 0-10 psi | 4262817 | | | |
| 0-15 psi | 4262825 | | | |
| 0-25 psi | 4262833 | | | |
| 0-30 psi | 4262841 | | | |
| 0-50 psi | 4262850 | | | |
| 0-100 psi | 4262868 | | | |

NOTE: Ready-to-ship part numbers shown in **bold, blue** print.

Ready-to-ship part numbers are available from stock (subject to prior sale). Items without part numbers are available on special order.

Datasheet: LS-10

NOTE: LS-10 "Ready-to-Ship" submersible transmitters require assembly from factory stocked components and usually ship in three days or less.



LH-10 Submersible High Performance Liquid Level Transmitter -50 inWC to 400 psi

Standard Features

- Signal Output: 4-20 mA 2-wire
- Supply Voltage: 10-30 VDC
- Process Connection:
 - G1/2B with removable protective cap
- Electrical Connection: 40 ft. vented polyurethane cable

| Gauge Ranges | | | | |
|--------------|---------|--|--|--|
| Description | | | | |
| Range | Part # | | | |
| 0-50 inWC | 9699703 | | | |
| 0-100 inWC | 9699711 | | | |
| 0-150 inWC | 9699729 | | | |
| 0-250 inWC | 9699737 | | | |
| 0-400 inWC | 9699745 | | | |
| 0-5 psi | 8371846 | | | |
| 0-10 psi | 9699754 | | | |
| 0-15 psi | 9736225 | | | |
| 0-25 psi | 9699762 | | | |
| 0-50 psi | 9699770 | | | |
| 0-100 psi | 9699788 | | | |

NOTE: Ready-to-ship part numbers shown in **bold**, **blue** print.

Ready-to-ship part numbers are available from stock (subject to prior sale). Items without part numbers are available on special order.

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LH-10 Option List

| Eaa | ÷ | ř٩ |
|-----|----|----|
| rea | ιu | ΤG |

| Signal Ouput |
|-------------------|
| 4 20 mA, 2-wire |
| 0 20 mA, 3-wire |
| 0 10 V, 3-wire |
| 0 5 V, 3-wire |
| 0.5 2.5 V, 3-wire |
| On inquiry |
| Unit |
| psi |
| InWC |
| psi absolute |
| On inquiry |
| Pressure Range |
| 0 InWC 50 InWC |
| 0 InWC 100 InWC |
| 0 InWC 150 InWC |
| 0 InWC 250 InWC |
| 0 InWC 400 InWC |
| 0 psi 5 psi |
| 0 psi 10 psi |
| 0 psi 15 psi |
| 0 psi 25 psi |
| 0 psi 50 psi |
| 0 psi 100 psi |
| 0 psi 160 psi |
| 0 psi 200 psi |
| 0 psi 250 psi |
| 0 psi 300 psi |
| 0 psi 400 psi |
| On inquiry |
| |

| Feature |
|---|
| |
| Process Connection |
| G 1/2 B |
| On inquiry |
| Special Design Features |
| Without |
| Teflon cable |
| Lightning protection according to IEC 801-5 |
| Temperature measurement Pt 100, 4-wire |
| Lightning protection according to IEC 801-5 |
| and temperature measurement Pt 100, 4-wire |
| Hastelloy C4 (with FEP cable) |
| On inquiry |
| Cable Length |
| 5 feet |
| 10 feet |
| 20 feet |
| 30 feet |
| 40 feet |
| 50 feet |
| On inquiry |
| Quality Certificates |
| Without |
| NIST Certificate of Calibration |
| Digital Display |
| Without |
| Digital display |
| Additional order details |
| Without |
| Additional text |



Submersible Intrinsically Safe Pressure Transmitters Type IL-10

WIKA IL-10 intrinsically safe submersible liquid level transmitters are engineered for a wide variety of industrial and municipal liquid level measurement applications, including water and wastewater treatment, well depth measurement, and offshore water depth measurement where performance and intrinsically safe ratings are required. The transmitter features a watertight, vented polyurethane cable that can withstand over 220 pounds of strain. This allows the transmitter to be supported without any additional cabling. The transmitter meets NEMA 6P and IP 68 requirements for submersion up to 900 feet.

Intrinsically safe for Class I, Division I, Groups A, B, C, and D Class II, Division I, Groups E, F, and G



Datasheet: IL-10 Available on www.wika.com



Intrinsically Safe High Performance Submersible Liquid Level Transmitters 50 inWC to 400 psi



Standard Features

Signal Output:

Supply Voltage:

4-20 mA 2-wire 10-30 VDC

G 1/2 B

Process Connection:

Type IL-10

IL-10 Option List

| Unit psi InWC On inquiry Pressure Range 0 InWC 50 InWC 0 InWC 50 InWC 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 400 InWC 0 psi 5 psi 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 30 psi 0 psi 100 psi 0 psi 100 psi 0 psi 100 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi 0 psi 400 psi 0 psi 400 psi 0 ninquiry Process Connection G 1/2 B | Feature |
|--|--------------|
| psi InWC On inquiry Pressure Range 0 InWC 50 InWC 0 InWC 50 InWC 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 250 InWC 0 InWC 400 InWC 0 psi 5 psi 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 30 psi 0 psi 100 psi 0 psi 200 psi 0 psi 400 psi 0n inquiry Process Connection G 1/2 B | |
| psi InWC On inquiry Pressure Range 0 InWC 50 InWC 0 InWC 50 InWC 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 250 InWC 0 InWC 400 InWC 0 psi 5 psi 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 30 psi 0 psi 100 psi 0 psi 200 psi 0 psi 400 psi 0n inquiry Process Connection G 1/2 B | |
| InWC On inquiry Pressure Range 0 InWC 50 InWC 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 250 InWC 0 InWC 250 InWC 0 InWC 250 InWC 0 InWC 400 InWC 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 25 psi 0 psi 30 psi 0 psi 100 psi 0 psi 200 psi 0 psi 400 psi 0 ninquiry Process Connection G 1/2 B | |
| On inquiry Pressure Range 0 InWC 50 InWC 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 psi 15 psi 0 psi 10 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 25 psi 0 psi 30 psi 0 psi 100 psi 0 psi 200 psi 0 psi 400 psi 0 n inquiry Process Connection G 1/2 B | - |
| Pressure Range 0 InWC 50 InWC 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 400 InWC 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 15 psi 0 psi 25 psi 0 psi 25 psi 0 psi 30 psi 0 psi 100 psi 0 psi 200 psi 0 psi 200 psi 0 psi 400 psi 0 n inquiry Process Connection G 1/2 B | |
| 0 InWC 50 InWC 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 250 InWC 0 psi 5 psi 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 15 psi 0 psi 25 psi 0 psi 30 psi 0 psi 30 psi 0 psi 100 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi 0 ninquiry Process Connection G 1/2 B | |
| 0 InWC 100 InWC 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 250 InWC 0 psi 250 InWC 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 15 psi 0 psi 25 psi 0 psi 25 psi 0 psi 30 psi 0 psi 100 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi 0 ninquiry Process Connection G 1/2 B | |
| 0 InWC 150 InWC 0 InWC 250 InWC 0 InWC 400 InWC 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 25 psi 0 psi 30 psi 0 psi 60 psi 0 psi 100 psi 0 psi 100 psi 0 psi 100 psi 0 psi 100 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi 0 psi 400 psi 0 n inquiry Process Connection G 1/2 B | |
| 0 InWC 250 InWC 0 InWC 400 InWC 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 25 psi 0 psi 30 psi 0 psi 30 psi 0 psi 100 psi 0 psi 100 psi 0 psi 160 psi 0 psi 200 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi 0 psi 400 psi 0 n inquiry Process Connection G 1/2 B | |
| 0 InWC 400 InWC 0 psi 5 psi 0 psi 10 psi 0 psi 15 psi 0 psi 25 psi 0 psi 25 psi 0 psi 30 psi 0 psi 30 psi 0 psi 100 psi 0 psi 100 psi 0 psi 100 psi 0 psi 200 psi 0 psi 300 psi 0 psi 300 psi 0 psi 400 psi 0 psi 400 psi 0 ninquiry Process Connection G 1/2 B | |
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| 0 psi 30 psi 0 psi 60 psi 0 psi 100 psi 0 psi 100 psi 0 psi 200 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi On inquiry Process Connection G 1/2 B | |
| 0 psi 60 psi 0 psi 100 psi 0 psi 160 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi On inquiry Process Connection G 1/2 B | |
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| 0 psi 160 psi 0 psi 200 psi 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi On inquiry Process Connection G 1/2 B | |
| 0 psi 200 psi 0 psi 300 psi 0 psi 400 psi On inquiry Process Connection G 1/2 B | |
| 0 psi 300 psi 0 psi 400 psi On inquiry Process Connection G 1/2 B | |
| 0 psi 400 psi On inquiry Process Connection G 1/2 B | |
| On inquiry Process Connection G 1/2 B | |
| Process Connection G 1/2 B | |
| G 1/2 B | |
| | |
| | G 1/2 B |
| On inquiry | On inquiry |

Feature

| Special Design Features |
|------------------------------------|
| Without |
| Hastelloy C4 (with FEP cable) |
| Teflon cable |
| On inquiry |
| Accuracy |
| +/- 0.25% B.F.S.L. |
| +/- 0.125% B.F.S.L. |
| Cable Length |
| 5 feet |
| 10 feet |
| 20 feet |
| 30 feet |
| 40 feet |
| 50 feet |
| On inquiry |
| Approvals |
| EEx ia IP6X 1D, 1G, M1 per ATEX |
| incl. FM and CSA |
| EEx ia IP6X 1D, 1G, M1 per ATEX |
| incl. FM, CSA and ship approval GL |
| On inquiry |
| Quality Certificates |
| Without |
| NIST Certificate of Calibration |
| Digital Display |
| Without |
| Digital display |
| Additional order details |
| Without |
| Additional text |