

Electronic Pressure Catalog > General Purpose > S-10, S-11

Type S-10, S-11 General Purpose Pressure Transmitters

Applications

- Hydraulics and pneumatics
- Test equipment
- Pump and compressor control
- Liquid level measurement

Special Features

- Standard ranges available from stock
- 4-20 mA 2-wire output signal, others available
- Highly resistant to pressure spikes and vibration
- Stainless steel case and wetted parts
- Can be assembled to diaphragm seals for special applications



Left: S-10 with NPT process connection
 Center: S-11 with flush diaphragm process connection
 Right: S-11 with flush diaphragm process connection and integral cooling element

Description

WIKA S-10 and S-11 pressure transmitters are precision engineered to fit most industrial pressure measurement applications. The compact, rugged design makes these instruments suitable for applications including hydraulics and pneumatics, vacuum, test equipment, liquid level measurement, press control, compressor control, pump protection and numerous other processing and control operations. A wide range of electrical connection and process connection options are available to meet almost any requirement.

Rugged construction

The S-10 features an all-welded stainless steel measuring cell for improved media compatibility. There are no internal soft sealing materials that may react with the media or deteriorate over time. The compact case is also made of stainless steel and is available with environmental protection ratings up to NEMA 6P / IP 68.

The S-11 transmitter features a flush diaphragm process connection. The S-11 is specifically designed for the measurement of viscous fluids or media containing solids that may clog a NPT process connection. Flush diaphragm pressure transmitters are available in pressure ranges from 50 InWC to 8,000 psi. For high temperature media, an integral cooling element is available on the S-11. This option increases the maximum media temperature to 302 °F.

Each instrument undergoes extensive quality control testing and calibration to achieve an accuracy of $\leq 0.25\%$ full scale. The printed circuit boards use state-of-the-art surface mount technology and are potted in silicone gel for protection against mechanical shock, vibration and moisture. Each is individually temperature compensated to assure accuracy and long-term stability even when exposed to severe ambient temperature variations.

GENERAL PURPOSE

| Specifications | | Type S-10, S-11 | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|-----------|------------|------------|------------|------------|--------------------------|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Pressure range | 50 InWC | 5 psi | 10 psi | 25 psi | 30 psi | 60 psi | 100 psi | 160 psi | 200 psi | | | | | | | | | | | | |
| Maximum pressure* | 14 psi | 29 psi | 58 psi | 145 psi | 145 psi | 240 psi | 500 psi | 1,160 psi | 1,160 psi | | | | | | | | | | | | |
| Burst pressure** | 29 psi | 35 psi | 69 psi | 170 psi | 170 psi | 290 psi | 600 psi | 1,390 psi | 1,390 psi | | | | | | | | | | | | |
| Pressure range | 300 psi | 500 psi | 1,000 psi | 2,000 psi | 3,000 psi | 5,000 psi | 8,000 psi | 10,000 psi ¹⁾ | 15,000 psi ¹⁾ | | | | | | | | | | | | |
| Maximum pressure* | 1,160 psi | 1,160 psi | 1,740 psi | 4,600 psi | 7,200 psi | 11,600 psi | 17,400 psi | 17,400 psi | 21,750 psi | | | | | | | | | | | | |
| Burst pressure** | 1,390 psi | 5,800 psi | 7,970 psi | 14,500 psi | 17,400 psi | 24,650 psi | 34,800 psi | 34,800 psi | 43,500 psi | | | | | | | | | | | | |
| {vacuum, gauge pressure, compound ranges, and absolute pressure references are available} | | | | | | | | | | | | | | | | | | | | | |
| 1) Ranges only available with Model S-10 | | | | | | | | | | | | | | | | | | | | | |
| 2) For Model S-11 the burst pressure is limited to 21,000psi unless the pressure seal is accomplished by using the sealing ring underneath the hex. | | | | | | | | | | | | | | | | | | | | | |
| *Pressure applied up to the maximum rating will cause no permanent change in specifications but may lead to zero and span shifts | | | | | | | | | | | | | | | | | | | | | |
| **Exceeding the burst pressure may result in destruction of the transmitter and possible loss of media | | | | | | | | | | | | | | | | | | | | | |
| Materials | | | | | | | | | | | | | | | | | | | | | |
| ■ Wetted parts | | (other materials see WIKA diaphragm seal program) | | | | | | | | | | | | | | | | | | | |
| ➤ Type S-10 | | Stainless steel | | | | | | | | | | | | | | | | | | | |
| ➤ Type S-11 | | Stainless steel | | | | | | | | | | | | | | | | | | | |
| ■ Case | | O-ring: NBR ³⁾ {Viton® or EPDM} | | | | | | | | | | | | | | | | | | | |
| Internal transmission fluid ⁴⁾ | | Stainless steel | | | | | | | | | | | | | | | | | | | |
| | | Synthetic oil {Halocarbon® oil for oxygen applications} ⁵⁾ {Listed by FDA for food applications}} | | | | | | | | | | | | | | | | | | | |
| ³⁾ O-ring made of Viton® or EPDM for type S-11 with integral cooling element. | | | | | | | | | | | | | | | | | | | | | |
| ⁴⁾ Not available with type S-10 in pressure ranges >300 psi. | | | | | | | | | | | | | | | | | | | | | |
| ⁵⁾ Media temperature for oxygen version: -4 ... +140 °F (-20....+60°C). Oxygen version is not available in vacuum and absolute pressure ranges or with S-11 > 500 psi | | | | | | | | | | | | | | | | | | | | | |
| Power supply U _B ⁶⁾ | U _B in DC V | 10 < U _B ≤ 30 (14 ... 30 with signal output 0 ... 10 V) | | | | | | | | | | | | | | | | | | | |
| Signal output and maximum load R _A | R _A in Ohm | 4 ... 20 mA, 2-wire R _A ≤ (U _B - 10 V) / 0.02 A 0 ... 20 mA, 3-wire R _A ≤ (U _B - 3 V) / 0.02 A {0 ... 5 V, 3-wire} R _A > 5000 | | | | | | | | | | | | | | | | | | | |
| Adjustability zero/span | % | {0 ... 10 V, 3-wire} R _A > 10,000 {other signal outputs available} | | | | | | | | | | | | | | | | | | | |
| Response time (10 ... 90 %) | ms | ± 5 using potentiometers inside the instrument ≤ 1 (≤ 10 ms at media temperatures below -22°F (-30°C) for ranges < 300 psi or with flush diaphragm process connection) | | | | | | | | | | | | | | | | | | | |
| Isolation voltage | DC V | 500 | | | | | | | | | | | | | | | | | | | |
| ⁶⁾ NEC Class 02 power supply (low voltage and low current max. 100 VA even under fault conditions) | | | | | | | | | | | | | | | | | | | | | |
| Accuracy ⁷⁾ | % of span | ≤ 0.25 {0.125} ⁸⁾ (BFSL) | | | | | | | | | | | | | | | | | | | |
| | % of span | ≤ 0.5 {0.25} ⁸⁾ (limit point calibration) | | | | | | | | | | | | | | | | | | | |
| ⁷⁾ Including linearity, hysteresis and repeatability. | | | | | | | | | | | | | | | | | | | | | |
| Limit point calibration performed in vertical mounting position with pressure connection facing down. | | | | | | | | | | | | | | | | | | | | | |
| ⁸⁾ Improved accuracy is available for pressure ranges ≥ 100 InWC | | | | | | | | | | | | | | | | | | | | | |
| Non-repeatability | % of span | ≤ 0.1 | | | | | | | | | | | | | | | | | | | |
| 1-year stability | % of span | ≤ 0.2 (at reference conditions) | | | | | | | | | | | | | | | | | | | |
| Permissible temperature of | | | | | | | | | | | | | | | | | | | | | |
| ■ Medium ⁹⁾ | | -22 ... +212 °F {-40 ... +257 °F} -30 ... +100 °C {-40 ... +125 °C} S-11 with cooling element: -4 ... +302 °F S-11 with cooling element: -20 ... +150 °C | | | | | | | | | | | | | | | | | | | |
| ■ Ambient ⁹⁾ | | -4 ... +176 °F -20 ... +80 °C S-11 with cooling element: -4 ... +176 °F S-11 with cooling element: -20 ... +80 °C | | | | | | | | | | | | | | | | | | | |
| ■ Storage ⁹⁾ | | -40 ... +212 °F -40 ... +100 °C S-11 with cooling element: -4 ... +212°F S-11 with cooling element: -20 ... +100 °C | | | | | | | | | | | | | | | | | | | |
| ⁹⁾ Also complies with EN 50178, Tab. 7, Type C, Class 4KH Operation, 1K4 Storage, 1K3 Transport | | | | | | | | | | | | | | | | | | | | | |
| Compensated temperature range | | 32 ... +176 °F 0 ... +80 °C | | | | | | | | | | | | | | | | | | | |
| Temperature coefficients (TC) within compensated temp range: | | | | | | | | | | | | | | | | | | | | | |
| ■ Mean TC of zero | % of span | ≤ 0.2 / 10 K (< 0.4 for pressure range ≤ 100 InWC) | | | | | | | | | | | | | | | | | | | |
| ■ Mean TC of range | % of span | ≤ 0.2 / 10 K | | | | | | | | | | | | | | | | | | | |
| CE - conformity | | | | | | | | | | | | | | | | | | | | | |
| ■ Pressure equipment directive | | 97/23/EC | | | | | | | | | | | | | | | | | | | |
| ■ EMC directive | | 2004/108/EEC, EN 61 326 Emission Group (Group 1, Class B) and Immunity)industrial locations | | | | | | | | | | | | | | | | | | | |
| Shock resistance | g | 1000 according to IEC 60068-2-27 (mechanical shock) | | | | | | | | | | | | | | | | | | | |
| Vibration resistance | g | 20 according to IEC 60068-2-6 (vibration under resonance) | | | | | | | | | | | | | | | | | | | |
| Wiring protection | | Protected against reverse polarity, overvoltage and short circuit | | | | | | | | | | | | | | | | | | | |
| Weight | lb | Approx. 0.4 | | | | | | | | | | | | | | | | | | | |

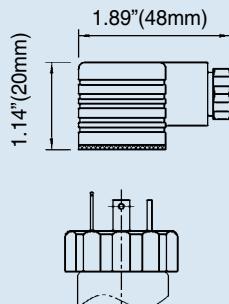
{ } Items in curved brackets { } are optional extras for additional price.

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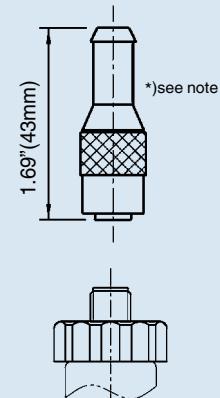
Dimensions in inches(mm)

Electrical connections

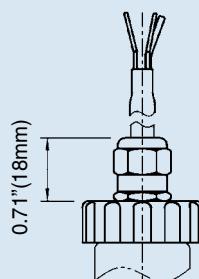
L-connector, DIN EN 175301-803, Form A (DIN 43 650) for conductor cross section up to max. 1.5 mm², conductor outer diameter 0.3" (6-8 mm), NEMA 5 / IP 65 Order code: A4



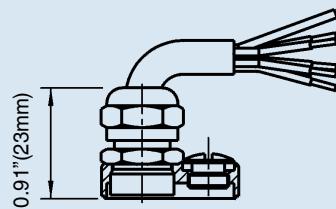
Circular connector M 12x1, 5 pin, NEMA 4 / IP 67 Order code: M5



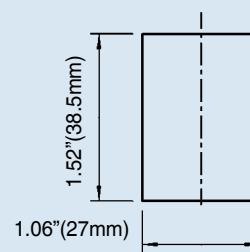
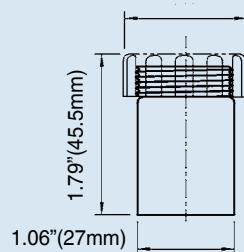
Cable with free ends conductor cross section up to max. 0.5 mm² / AWG 20 with end splices, conductor outer diameter 6.8 mm, NEMA 4 / IP 67 Order code: DL



Cable with free ends, adjustable zero and span conductor cross section up to max. 0.5 mm² / AWG 20 with end splices, conductor outer diameter 6.8 mm, NEMA 6 P / IP 68 Order code: XM

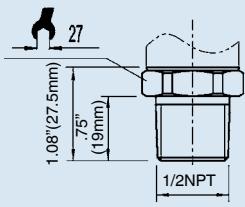


Case

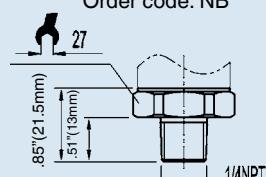


S-10 pressure connections (others available)

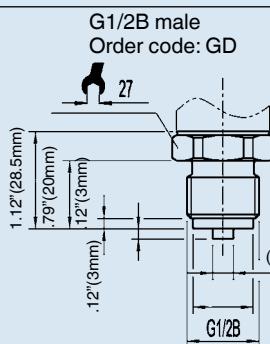
1/2 NPT male
Order code: ND



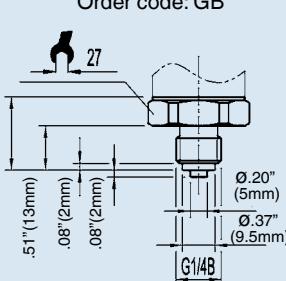
1/4 NPT male
Order code: NB



G1/2B male
Order code: GD

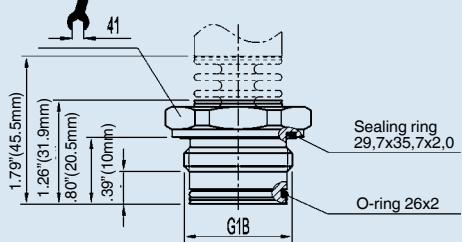


G1/4B male
Order code: GB

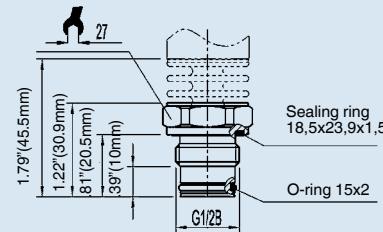


S-11 flush diaphragm pressure connections

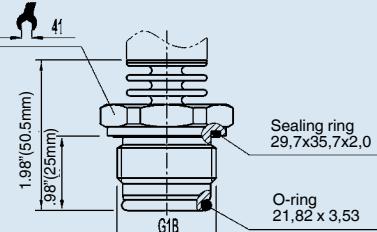
G 1 B
with or without cooling element
50 InWC to 25 psi
Order code: 85



G 1/2 B
with or without cooling element
30 psi to 8000 psi
Order code: 86



G1B according to EHEDG **)
with cooling element, up to 302°F (150°C)
100 InWC to 250 psi
Order code: 84

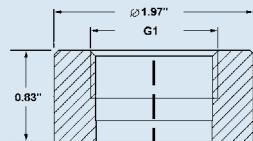


**) European Hygienic Equipment Design Group

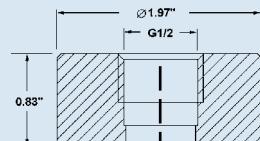
*) Mating connector not included

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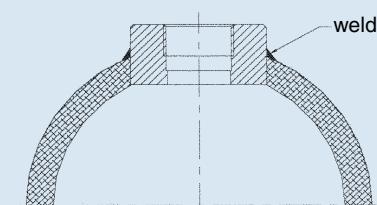
Matching P-1 weld insert adapters for S-11 pressure transmitters



P-1 G1 weld insert adapter
Part # 1206974
for pressure ranges \leq 30 psi



P-1 G1/2 weld insert adapter
Part # 1097008
for pressure ranges \geq 50 psi

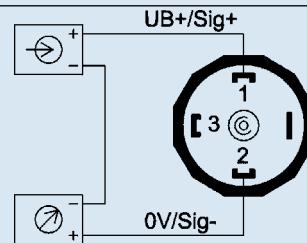


Cross section view of P-1
adapter installed in pipe.

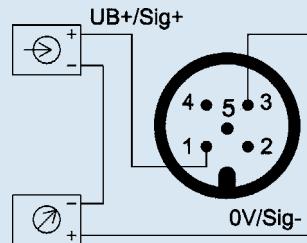
Wiring

2-wire system

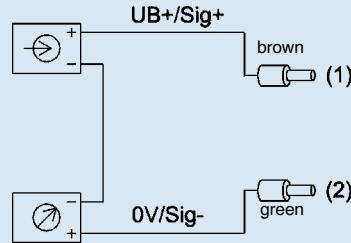
L-Connector,
DIN EN 175301-803, Form A
(DIN 43 650)



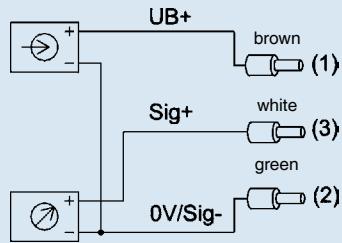
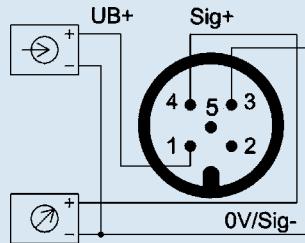
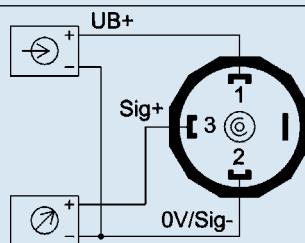
M12x1 Circular connector
5 pin



Vented cable with free ends



3-wire system



Legend:

| | | | |
|--|---------------------|-------|------------------------|
| | power supply | Sig+ | output signal positive |
| | load (e.g. display) | UB+ | power supply positive |
| | | 0V | power supply negative |
| | | Sig - | output signal negative |

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Type S-10 General Purpose Pressure Transmitters

Standard Features

- **Signal output:** 4-20 mA 2-wire
- **Supply voltage:** 10-30 VDC
- **Process connection:** 1/2 NPT male
- **Electrical connection:** DIN EN 175301-803 (DIN 43 650) with plug connector



| Gauge Ranges | |
|--------------|----------------|
| Description | |
| Range | Part # |
| 0-50 InWC | 8367656 |
| 0-100 InWC | 8341481 |
| 0-5 psi | 8415072 |
| 0-10 psi | 8642885 |
| 0-15 psi | 8643628 |
| 0-25 psi | 8341995 |
| 0-30 psi | 8643636 |
| 0-50 psi | 8348868 |
| 0-60 psi | 8643644 |
| 0-100 psi | 8643652 |
| 0-160 psi | 8341155 |
| 0-200 psi | 8644918 |
| 0-250 psi | 8341163 |
| 0-300 psi | 8341732 |
| 0-400 psi | 8341953 |
| 0-500 psi | 8341740 |
| 0-600 psi | 8347128 |
| 0-750 psi | 4294930 |
| 0-1,000 psi | 8610007 |
| 0-1,500 psi | 8341219 |
| 0-2,000 psi | 8353098 |
| 0-3,000 psi | 8342275 |
| 0-5,000 psi | 8340638 |
| 0-8,000 psi | 8341864 |
| 0-10,000 psi | 8347242 |
| 0-15,000 psi | 8359143 |

| Vacuum & Compound Ranges | |
|--------------------------|----------------|
| Description | |
| Range | Part # |
| 30"-0 HgVac | 8642850 |
| 30"-0-30 psi | 8415080 |
| 30"-0-60 psi | 8415099 |
| 30"-0-100 psi | 8648646 |
| 30"-0-160 psi | 9796881 |
| 30"-0-200 psi | 8985538 |

| Absolute Pressure Ranges | |
|--------------------------|----------------|
| Description | |
| Range | Part # |
| 0-15 psia | 8587582 |
| 0-25 psia | 8358503 |
| 0-50 psia | 8347854 |
| 0-100 psia | 9734538 |
| 0-250 psia | 9734589 |
| 0-500 psia | 9767164 |

NOTE: Standard part numbers shown in **bold, blue** print.

S-10 Smart Codes for Custom Order Configurations

| Field no. | Code | Feature |
|-----------------------|------|--|
| Signal output | | |
| | A | 4... 20 mA, 2-wire |
| | B | 0... 20 mA, 3-wire |
| | F | 0... 10 V, 3-wire (supply 14-30 V) |
| | G | 0... 5 V, 3-wire |
| | W | 0.5 ... 4.5 V 3-wire ratiometric |
| 1 | ? | Other - please specify |
| Unit | | |
| | P | psi |
| | N | InWC |
| | 3 | psi absolute (from 15 psi to 250 psi absolute) |
| 2 | ? | Other - please specify |
| Pressure range | | |
| | CA | -30 inHg ... 0 |
| | CD | -30 inHg ... 30 psi |
| | CF | -30 inHg ... 60 psi |
| | CH | -30 inHg ... 100 psi |
| | CK | -30 inHg ... 160 psi |
| | CL | -30 inHg ... 200 psi |
| | GG | 0 InWC ... 50 InWC |
| | GU | 0 InWC ... 100 InWC |
| | CN | 0 psi ... 5 psi |
| | CP | 0 psi ... 10 psi |
| | BC | 0 psi ... 15 psi (0 psi ... 15 psi absolute) |
| | CQ | 0 psi ... 25 psi (0 psi ... 25 psi absolute) |
| | BD | 0 psi ... 30 psi |
| | DA | 0 psi ... 50 psi (0 psi ... 50 psi absolute) |
| | BE | 0 psi ... 60 psi |
| | BF | 0 psi ... 100 psi (0 psi ... 100 psi absolute) |
| | BG | 0 psi ... 160 psi |
| | BH | 0 psi ... 200 psi |
| | DG | 0 psi ... 250 psi (0 psi ... 250 psi absolute) |
| | BI | 0 psi ... 300 psi |
| | BK | 0 psi ... 400 psi |
| | DI | 0 psi ... 500 psi |
| | BL | 0 psi ... 600 psi |
| | DJ | 0 psi ... 750 psi |
| | BN | 0 psi ... 1,000 psi |
| | BO | 0 psi ... 1,500 psi |
| | BP | 0 psi ... 2,000 psi |
| | BQ | 0 psi ... 3,000 psi |
| | BS | 0 psi ... 5,000 psi |
| | DS | 0 psi ... 8,000 psi |
| | BT | 0 psi ... 10,000 psi |
| | BU | 0 psi ... 15,000 psi |
| 3 | ?? | Other - up to maximum specified pressure range |

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S-10 Smart Codes for Custom Order Configurations (cont')

| Field no. | Code | Feature |
|--------------------------------|------|--|
| Process connection | | |
| | | |
| | NB | 1/4" NPT |
| | ND | 1/2" NPT |
| | NH | 1/8" NPT |
| | GB | G 1/4 B |
| | GD | G 1/2 B |
| | NP | 1/4" NPT female |
| | NQ | 1/2" NPT female |
| | NR | 1/8" NPT female |
| | UA | 7/16-20 UNF SAE #4 J514 male |
| | UB | 7/16-20 UNF SAE #4 J514 female |
| | UE | 9/16-18 UNF SAE #6 J514 male |
| | UF | 9/16-18 UNF SAE #6 J514 female |
| | UC | 3/4-16 UNF SAE #8 J514 male |
| | UD | 3/4-16 UNF SAE #8 J514 female |
| | CS | Diaphragm seal |
| 4 | ?? | Other - please specify |
| Special design features | | |
| | | |
| | Z | Without |
| | A | Oxygen, oil and grease free ¹⁾ |
| 5 | ? | Other - please specify |
| Accuracy | | |
| | | |
| | G | +/- 0.25% B.F.S.L. |
| 6 | K | +/- 0.125% B.F.S.L. ($\geq 100 \text{ lnWC}$) |
| Electrical connection | | |
| | | |
| | A4 | 4 Pin L-plug DIN 43 650 with pg 9 (NEMA 5 / IP 65) |
| | AX | 4 Pin L-plug DIN 43 650 w / 1/2" NPT female conduit (NEMA 5/IP 65) |
| | M5 | M12 x 1, 5 pin circular connector |
| | DL | Cable with free ends (NEMA 4 / IP 67) |
| | 2X | 1/2" NPT male conduit with cable |
| | XM | Submersible cable (NEMA 6 / IP 68) |
| | O4 | 4 Pin MIL plug PT02E-8-4P (NEMA 5 / IP 65) |
| | C6 | 6 Pin MIL plug PT02E-10-6P (NEMA 5 / IP 65) |
| 7 | ?? | Other - please specify |
| Cable length | | |
| | | |
| | Z | Without (always with plug connection) |
| | Y | 5 feet |
| | 1 | 10 feet |
| | 2 | 20 feet |
| | 3 | 30 feet |
| | 4 | 40 feet |
| | 5 | 50 feet |
| 8 | ? | Other - please specify |

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S-10 Smart Codes for Custom Order Configurations (cont¹)

| Field no. | Code | Feature |
|------------------------------------|------|---|
| Temperature range of medium | | |
| 9 | A | -30 ... +100 °C (-22 ... +212 °F) |
| | B | -40 ... +125 °C (-40 ... +257 °F) |
| | X | Changed because of diaphragm seal attachment (only with process connection CS) |
| Approvals | | |
| 10 | Z | Without |
| | G | GL, BV, ABS, RINA, DNV, Class NK |
| | ? | Other - please specify |
| Quality certificates | | |
| 11 | Z | Without |
| | I | NIST Certificate of Calibration (always with 0.125% accuracy) |
| Digital display | | |
| 12 | Z | Without |
| | 1 | Digital display (order separately) |
| Additional order details | | |
| 13 | Z | Without |
| | T | Additional order details |

1) Maximum media temperature is -24 ... +140° F (-20 ... +60° C) for pressure ranges 100 InWC to 300 psi. (Field 5, Code A)

Order Code:

S-10 - - - - -

*Additional order details

Type S-11 Flush Diaphragm Pressure Transmitter

Standard Features

- **Signal output:** 4-20 mA 2-wire
- **Supply voltage:** 10-30 VDC
- **Electrical connection:** DIN EN 175301-803 (DIN 43 650) with plug connector
- **Process connection:** G1B or G1/2B depending upon pressure range



| Gauge Ranges | |
|-------------------------|----------------|
| Description | |
| Range | Part # |
| 0-50 InWC ¹ | 9739640 |
| 0-100 InWC ¹ | 8341473 |
| 0-5 psi ¹ | 4204051 |
| 0-10 psi ¹ | 8341074 |
| 0-15 psi ¹ | 8345726 |
| 0-25 psi ¹ | 8395736 |
| 0-30 psi ¹ | 8395746 |
| 0-50 psi | 8395766 |
| 0-60 psi | 8351312 |
| 0-100 psi | 8341724 |
| 0-160 psi | 8643407 |
| 0-200 psi | 8641064 |
| 0-250 psi | 8341961 |
| 0-300 psi | 8341171 |
| 0-400 psi | 8342003 |
| 0-500 psi | 8341197 |
| 0-600 psi | 8345745 |
| 0-750 psi | 8352865 |
| 0-1,000 psi | 9777517 |
| 0-1,500 psi | 8366706 |
| 0-2,000 psi | 8640823 |
| 0-3,000 psi | 8341758 |
| 0-5,000 psi | 8340646 |
| 0-8,000 psi | 9749581 |

| Vacuum & Compound Ranges | |
|--------------------------|----------------|
| Description | |
| Range | Part # |
| 30"-0 HgVac ¹ | 8395706 |
| 30"-0-30 psi | 9796058 |
| 30"-0-60 psi | 8345622 |
| 30"-0-100 psi | 8340242 |
| 30"-0-200 psi | 8342118 |

NOTE: Standard part numbers shown in **bold, blue** print.

NOTES:

¹Pressure ranges from 50 InWC to 25 psi are supplied with G1B flush process connections; see datasheet for details

S-11 Smart Codes for Custom Order Configurations

| Field no. | Code | Feature |
|-----------------------|------|--|
| Signal output | | |
| 1 | A | 4 ... 20 mA, 2-wire |
| | B | 0 ... 20 mA, 3-wire |
| | F | 0 ... 10 V, 3-wire (Supply 14-30 V) |
| | G | 0 ... 5 V, 3-wire |
| | W | 0.5 ... 4.5 V 3-wire ratiometric |
| | ? | Other - please specify |
| Unit | | |
| 2 | P | psi |
| | N | InWC |
| | 3 | psi absolute (from 15 psi to 250 psi absolute) |
| | ? | Other - please specify |
| Pressure range | | |
| 3 | CA | -30 inHg ... 0 |
| | CD | -30 inHg ... 30 psi |
| | CF | -30 inHg ... 60 psi |
| | CH | -30 inHg ... 100 psi |
| | CK | -30 inHg ... 160 psi |
| | CL | -30 inHg ... 200 psi |
| | GG | 0 InWC ... 50 InWC |
| | GU | 0 InWC ... 100 InWC |
| | CN | 0 psi ... 5 psi |
| | CP | 0 psi ... 10 psi |
| | BC | 0 psi ... 15 psi (0 psi ... 15 psi absolute) |
| | CQ | 0 psi ... 25 psi (0 psi ... 25 psi absolute) |
| | BD | 0 psi ... 30 psi |
| | DA | 0 psi ... 50 psi (0 psi ... 50 psi absolute) |
| | BE | 0 psi ... 60 psi |
| | BF | 0 psi ... 100 psi (0 psi ... 100 psi absolute) |
| | BG | 0 psi ... 160 psi |
| | BH | 0 psi ... 200 psi |
| | DG | 0 psi ... 250 psi (0 psi ... 250 psi absolute) |
| | BI | 0 psi ... 300 psi |
| | BK | 0 psi ... 400 psi |
| | DI | 0 psi ... 500 psi |
| | BL | 0 psi ... 600 psi |
| | DJ | 0 psi ... 750 psi |
| | BN | 0 psi ... 1,000 psi |
| | BO | 0 psi ... 1,500 psi |
| | BP | 0 psi ... 2,000 psi |

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S-11 Smart Codes for Custom Order Configurations (cont'd)

| Field no. | Code | Feature |
|---------------------------------|--------------------------------|---|
| Pressure range continued | | |
| 3 | BQ | 0 psi ... 3,000 psi |
| | BS | 0 psi ... 5,000 psi |
| | DS | 0 psi ... 8,000 psi |
| | ?? | Other - please specify |
| Process connection | | |
| 4 | 85 | G 1 B, flush diaphragm with O-ring (up to 25 psi) |
| | 86 | G 1/2 B, flush diaphragm with O-ring (\geq 30 psi) |
| | ?? | Other - please specify |
| Material of wetted parts | | |
| 5 | 1 | Stainless steel, NBR O-Ring ¹⁾ |
| | L | Stainless steel, Viton® O-Ring |
| | A | PFA Teflon® coated diaphragm, Viton® O-ring |
| 6 | ? | Other - please specify |
| | Special design features | |
| | Z | Without |
| | G | Suitable for food |
| 7 | A | Oxygen, oil and grease free ²⁾ |
| | ? | Other - please specify |
| | Accuracy | |
| 8 | G | +/- 0.25% B.F.S.L. |
| | K | +/- 0.125% B.F.S.L. (\geq 100 lnWC) |
| Electrical connection | | |
| 9 | A4 | 4 Pin L-plug DIN 43 650 with pg 9 (NEMA 5 / IP 65) |
| | AX | 4 Pin L-plug DIN 43 650 with 1/2" NPT female conduit (NEMA 5 / IP 65) |
| | DL | Cable with free ends (NEMA 4 / IP 67) |
| | 2X | 1/2" male conduit with cable |
| | XM | Submersible cable (NEMA 6 / IP 68) |
| | O4 | 4 Pin MIL Plug PT02E-8-4P (NEMA 5 / IP 65) |
| | C6 | 6 Pin MIL Plug PT02E-10-6P (NEMA 5 / IP 65) |
| | ?? | Other - please specify |
| | Cable length | |
| 9 | Z | Without (always with plug connection) |
| | Y | 5 feet |
| | 1 | 10 feet |
| | 2 | 20 feet |
| | 3 | 30 feet |
| | 4 | 40 feet |
| | 5 | 50 feet |
| | ? | Other - please specify |

S-11 Smart Codes for Custom Order Configurations (cont'd)

| Field no. | Code | Feature |
|------------------------------------|------|---|
| Temperature range of medium | | |
| 10 | A | -30 ... +100 °C (-22 ... +212 °F) |
| | B | -40 ... +125 °C (-40 ... +257 °F) |
| | C | -20 ... +150 °C (-4 ... +302 °F) with cooling element |
| Approvals | | |
| 11 | Z | Without |
| | ? | Other - please specify |
| Quality certificates | | |
| 12 | Z | Without |
| | I | NIST Certificate of Calibration (always with 0.125% accuracy) |
| | ? | Other - please specify |
| Digital display | | |
| 13 | Z | Without |
| | 1 | Digital display (order separately) |
| Additional order details | | |
| 14 | Z | Without |
| | T | Additional order details |

1) Not available with cooling element option (Field 10, Code C)

2) Maximum media temperature is -4 ... +140° F (-20 ... +60° C) for pressure ranges 100 InWC to 500 psi. (Field 6, Code A)

Order Code: 1 2 3 4 5 6 7 8 9 10 11 12 13 14*

S-11 - - - - -

*Additional order details _____