

SmartLine Wireless Pressure Transmitter ST 700 Gauge Pressure Models Specification

34-SW-03-xx, June 2018

Models:

STGW740	0 to 500 psi	0 to 35,000 mbar
STGW770	0 to 3,000 psi	0 to 210,000 mbar
STGW73L	0 to 50 psi	0 to 3,500 mbar
STGW74L	0 to 500 psi	0 to 35,000 mbar
STGW77L	0 to 3,000 psi	0 to 210,000 mbar
STGW78L	0 to 6,000 psi	0 to 420,000 mbar
STGW79L	0 to 10,000 psi	0 to 690,000 mbar

Introduction

SmartLine Wireless Pressure continues the evolution of Honeywell's wireless transmitter product offering and provides the latest critical advancements to support industrial automation users' desire to expand wireless use for monitoring and control.

With over 14 years of industrial wireless experience, the SmartLine Wireless Pressure builds upon and is compatible with the current XYR 6000 product portfolio. Similar to the XYR 6000 wireless transmitter, the SmartLine Wireless product line is part of the Honeywell OneWireless™ system and is ISA100 - ready.

SmartLine Wireless Pressure transmitters also leverage SmartLine technology in the incorporation of the enhanced SmartLine Pressure meter body. By utilizing the same meter body as in the non-wireless pressure product offering, you get best-in-class performance, reduction in spares inventory, and a lessening of the maintenance learning curve.

The SmartLine Wireless Pressure transmitter enables customers to obtain data and create information from remote and hazardous measurement locations without the need to run wires, where running wire is cost prohibitive and/or the measurement is in a hazardous location. Without wires, transmitters can be installed



Figure 1 — SmartLine Wireless Differential Pressure Transmitters

and operational in minutes, quickly providing information back to your system.

The previous generation transmitters primarily were applied to monitoring applications but experienced users know that Honeywell's wireless products are as reliable, secure, and safe as their wired counterparts. With this knowledge, users are now looking for wireless transmitters for use in specific control applications.

SmartLine Wireless introduces a step change in performance and most notably, performance suitable for control. SmartLine Wireless performance is improved in these ways:

- Fast ½ second publication rate
- Built-in additional noise reduction
- More powerful 4dBi integral antenna
- Good battery life performance even at ½ second publication rate.

SmartLine Wireless Pressure retains the following desirable features from the XYR 6000 product offering:

- Mesh or non-mesh configuration within each transmitter
- Generic, off-the-shelf lithium ion battery.
- Two “D” size batteries for longer life.
- Choice of over-the-air or local provisioning (network security join key)
- Over-the-air firmware upgrade capability
- Unique, encrypted provisioning key delivered from the factory
- Remote and integral antenna options
- 24 VDC power option
- Publication rates of 1, 5, 10, or 30 seconds, plus new selections for ½ sec, and 1, 15, 30, 60 minutes
- Transmitter range (integral antenna) of 1150’ (350 m) under ideal conditions.

The STGW700 dual head and inline gauge pressure series are suitable for monitoring, control and data acquisition. STGW700 dual head products feature piezoresistive sensor technology combining pressure sensing with on-chip temperature compensation capabilities providing high accuracy, stability and performance over a wide range of application pressures and temperatures

Best in Class Features:

- Accuracy up to 0.065 % of calibrated span
- Stability up to 0.025% of URL per year for five years
- Automatic temperature compensation
- Rangeability up to 100:1
- Intuitive external zero & span capability
- Integral dual seal design for safety based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0

Span & Range Limits:

Model	URL / Max Span psi (bar)	LRL psi (bar)	Min Span psi (bar)
STGW740	500 (35)	-14.7 (-1.0)	5 (.35)
STGW770	3000 (210)	-14.7 (-1.0)	30 (2.1)
Model	psi (bar)	psi (bar)	psi (bar)
STGW73L	50 (3.5)	-14.7 (-1.0)	0.5 (.035)
STGW74L	500 (35)	-14.7 (-1.0)	5 (.35)
STGW77L	3000 (210)	-14.7 (-1.0)	30 (2.1)
STGW78L	6000 (420)	-14.7 (-1.0)	60 (4.2)
STGW79L	10000 (690)	-14.7 (-1.0)	100 (6.9)

Smart Line Wireless Features

Local and over-the-air provisioning capability. All Honeywell wireless devices feature a secure method to join the local wireless network, also known as provisioning. SmartLine Wireless transmitters feature two methods to provision a transmitter onto the network which are either by using a handheld device to locally communicate through the IR interface or remotely using the over-the-air function. The over-the-air function is managed by the OneWireless gateway, Wireless Device Manager (WDM).

In either method, the communication of secure, unique provisioning keys is one of the main factors to prevent against unintended access. Honeywell's security keys are unique for each device from the factory, never made visible, always encrypted, and uniquely generated from the gateway that manages the deployed network.

Over-the-air firmware updates. Once joined as a member of your OneWireless network, the WDM can download new transmitter firmware releases to each SmartLine Wireless transmitter over the wireless network. Locating and accessing the transmitter locally is not required thus saving time and keeping your personnel in safe environments.

Mesh and non-mesh capability. All SmartLine Wireless transmitters can be configured to operate in either a mesh network or a star (non-mesh) network. The configuration is specific to each wireless transmitter and thus the network can consist of a mixture of meshing and non-meshing devices. Non-meshing is desirable for deterministic communications which is preferred for control.

Transmission power setting. To comply with local and regional requirements, SmartLine Wireless transmitters are set at the factory to the maximum transmission power setting allowed for the country of use.

Non-proprietary battery. Sourcing lithium thionyl chloride batteries is much simpler since SmartLine Wireless utilizes commercial off-the-shelf batteries. Please see the list of approved battery manufacturers later in this specification. Batteries are housed in an IS-approved battery compartment making battery changes safe and easy.

Backward compatibility. SmartLine Wireless transmitters can join existing OneWireless networks and interoperate with existing XYR 6000 wireless transmitters or other ISA100 Wireless compliant transmitters or networks.

OneWireless Network Features

The core of the Honeywell wireless solution is the OneWireless Network which consists a gateway, access point(s), and field routers.

The Wireless Device Manager (WDM) serves as the gateway function and in this role, manages the communication from the wireless field devices to the process control application. Typically, the WDM connects logically to the process control network (Level 2 or wireless DMZ). As the wireless network manager, the WDM provides easy access to the entire wireless network through a browser-based user interface. The Honeywell WDM can manage devices communicating over the ISA100 Wireless protocol and the WirelessHART protocol.

The ability to deploy redundant WDMs improves the reliability ensuring no loss of process data which is a requirement for control applications.

The Field Device Access Point (FDAP) serves in two roles in the OneWireless network infrastructure, which are: 1) access point, and 2) field router. As an access point, the FDAP directly connects to the WDM via Ethernet LAN cable. More than one access point is permitted and, when more than one is present, it ensures dual path for communications into the WDM from the field devices. As a field router, the FDAP located in the field would communicate to the FDAP acting as an access point. Using the FDAP as a router is more efficient than using field devices as routers since FDAPs are line powered devices whereas field devices are typically battery powered, and the FDAP offers greater range. The meshing capability of FDAPs allows flexibility in the setup of the wireless network to fit the requirements for wireless network performance, in terms of reliable communications, performance, and future growth.

The choice of non-meshing network may be desirable for decreased communication latency which a FDAP serving as a field router helps ensures.

Wireless Specifications

Parameter	Description
Wireless Communication	2,400 to 2,483.5 MHz (2.4 GHz) Industrial, Scientific and Medical (ISM) band DSSS - Direct Sequential Spread Spectrum per FCC 15.247 / IEEE 802.15.4 2006 Every data packet transmitted in either direction is verified (CRC check) and acknowledged by the receiving device. USA – FCC Certified Canada – IC Certified European Union – Radio Equipment Directive compliant
DSSS RF Transmitter Power	NA Selection –100 mW (20.0 dBm) maximum EIRP including antenna for USA and Canadian locations. EU Selection – 63 mW (18 dBm) maximum EIRP including antenna per RTTE/ETSI for EU locations. Compliant to ETSI EN 300 328 wireless standard
Data	PV Publish Cycle Time: Configurable as 0.5, 1, 5, 10, 30 seconds, plus 1, 15, 30, 60 minutes Rate: 250 Kbps
Antennas	Integral – 4 dBi omnidirectional monopole (default selection) Remote – 8 dBi omnidirectional monopole with up to 20 m cable and lightning surge arrester Remote – 14 dBi directional parabolic with up to 20 m cable and lightning surge arrester.
Signal Range	Nominal 350 m (1150 feet) between Field Transmitter and Infrastructure Unit (FDAP) when using 4 dBi Integral antenna with a clear line of sight*

*Actual range will vary depending on antennas, cables and site topography.

Specifications

Operating Conditions – All Models

Parameter	Reference Condition (at zero static)		Rated Condition		Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F
Ambient Temperature**	25 ±1	77 ±2	-40 to 85*	-40 to 185*	-40 to 85*	-40 to 185*	-55 to 120	-67 to 248
Ambient Temperature LCD Display visible range	25 ±1	77 ±2	-40 to 85°C	-40 to 185°F				
Meter Body Temperature	25 ±1	77 ±2	-40 to 110	-40 to 230	-40 to 125	-40 to 257	-55 to 120	-67 to 248
Humidity %RH	10 to 55		0 to 100		0 to 100		0 to 100	
Vacuum Region - Minimum Pressure All Models mmHg absolute in H2O absolute	Atmospheric Atmospheric		25 13		2 (short term ¹) 1 (short term ¹)			
Maximum Allowable Working Pressure (MAWP) ^{2,3} (ST700 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)	Standard: STGW740: 500 psi (35 bar) STGW770: 3000 psi (210 bar) STGW73L: 50 psi (3.5 bar) STGW74L: 500 psi (35 bar) STGW78L: 6000 psi (420 bar) STGW79L: 10000 psi (690 bar)							
Vibration	Maximum of 4g over 15 to 200Hz.							
Shock	Maximum of 40g.							
Power	Commercially available, non-proprietary 3.6V Lithium thionyl chloride (LiSOCl2) batteries, non-rechargeable, size D. Battery pack-only option is available. Approved list of the manufacturer models: 1. Xeno Energy XL-205F 2. Eagle Picher PT-2300H 3. Tadiran TL-5930/s							
	24 VDC power option. ⁴ For Non I.S. application: 16 to 28 VDC Input range, max input current 100mA. For I.S. application: Barrier in accordance with the control drawing required, Entity parameters 30V, 120mA, 0.9W							

¹Short term equals 2 hours at 70°C (158°F)

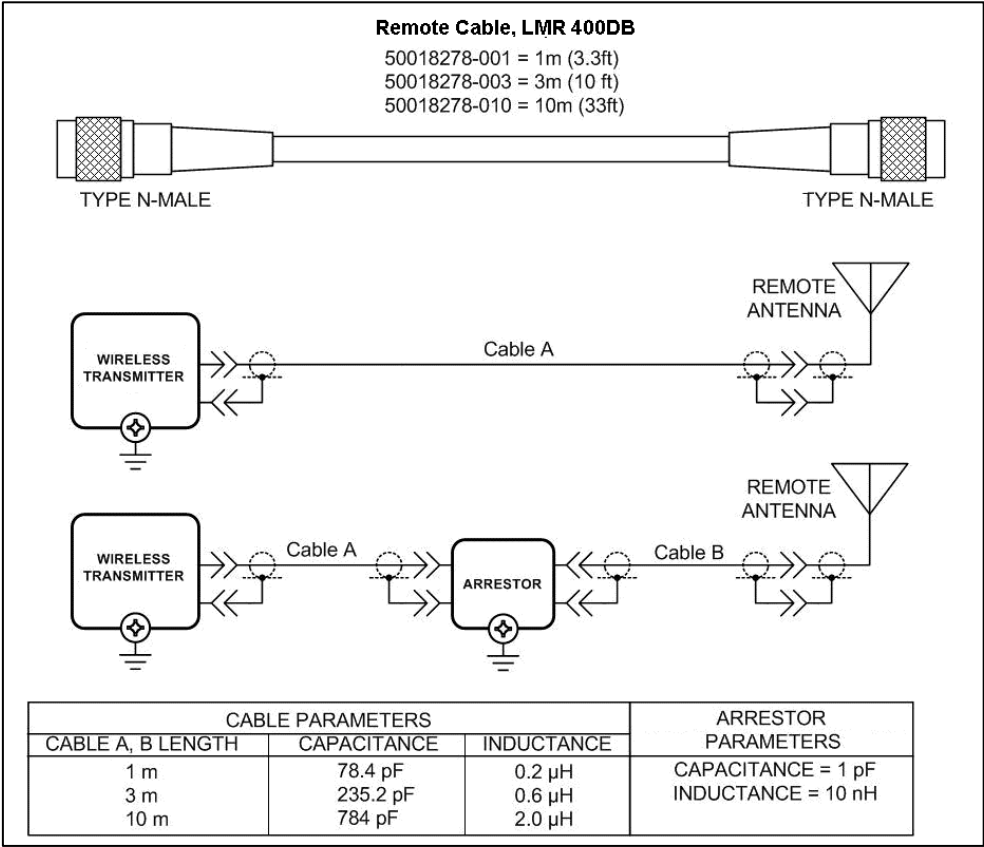
² Units can withstand overpressure of 1.5x MAWP without damage.

³ Consult factory for MAWP of SmartLine Wireless transmitters with CRN approval.

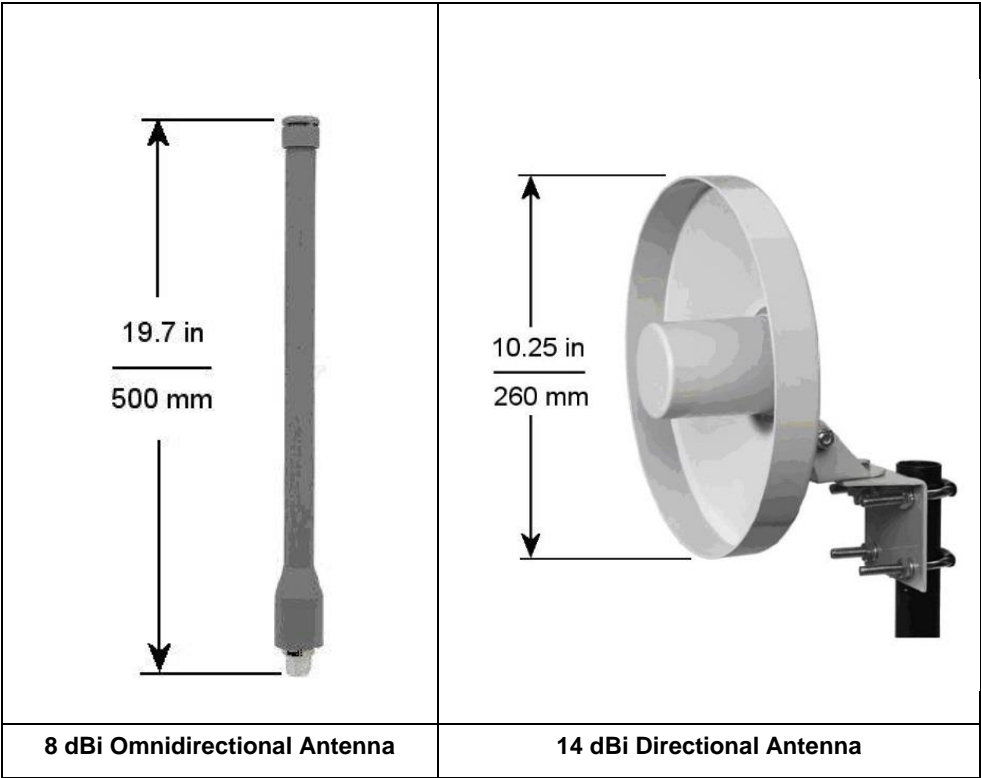
⁴24V power option rated 80°C (176°F)

** The Ambient Limits shown are for Ordinary Non-Hazardous locations only. Refer to the appropriate Control Drawing, FM/CSA, ATEX, or IECEx for the Ambient Limits when installed in Hazardous Locations.

Remote Antenna Cables



Remote Antennas



Performance Specifications

Reference Accuracy (conformance to +/-3 Sigma)

Table 1

Model	URL psi (bar)	LRL psi (bar)	Min Span psi (bar)	Maximum Turndown Ratio	Stability (% URL/ Yr for ten years)	Reference Accuracy ^{1,2} (% Span)
STGW740	500 (35)	-14.7 (-1.0)	5 (0.35)	100:1	0.025	0.0650%
STGW770	3000 (210)	-14.7 (-1.0)	30 (2.1)	100:1	0.025	0.0650%
STGW73L	50 (3.5)	-14.7 (-1.0)	0.5 (0.035)	100:1	0.025	0.0650%
STGW74L	500 (35)	-14.7 (-1.0)	5 (0.35)	100:1	0.025	0.0650%
STGW78L	6000 (420)	-14.7 (-1.0)	60 (4.2)	100:1	0.025	0.0650%
STGW79L	10000 (690)	-14.7 (-1.0)	100 (6.9)	100:1	0.025	0.0650%

Zero and span may be set anywhere within the listed (URL/LRL) range limits

Accuracy at Specified Span, Temperature and Static Pressure Effects: (conformance to +/-3)

Table to be provided

Total Performance (% of Span):

Total Performance Calculation: $= \pm \sqrt{(\text{Accuracy})^2 + (\text{Temperature Effect})^2}$

Total Performance Examples (for comparison): @ 5:1 Turndown, +/-50°F (28°C) shift

Table to be provided

Typical Calibration Frequency:

Calibration verification is recommended every two (2) years

Notes:

1. Terminal Based Accuracy - Includes combined effects of linearity, hysteresis, and repeatability. Analog output adds 0.006% of span.
2. For zero based spans and reference conditions of: 25 °C (77 °F) for LRV >= 0 psia, 10 to 55% RH, and 316 Stainless Steel barrier diaphragm.

Performance Under Rated Conditions – All Models

Parameter	Description
Vibration Effect	Less than +/- 0.1% of URL w/o damping Per IEC60770-1 field or pipeline, high vibration level (10-2000Hz: 0.21 displacement / 3g max acceleration)
Electromagnetic Compatibility	IEC 61326-3-1
Lightning Protection Option	Leakage Current: 10uA max @ 42.4VDC 93C Impulse rating: 8/20uS 5000A (>10 strikes) 10000A (1 strike min.) 10/1000uS 200A (> 300 strikes)
Lightning Surge Arrester (Remote antenna only)	Frequency range: 0 – 3 GHz, 50 Ohms, VSWR = 1:1.3 Max, Insertion Loss = 0.4 dB Connectors Type N Female, Max, Gas Tube Element: 90 V ± 20%, Impulse Breakdown Voltage = 1,000 V ± 20%, Maximum Withstand Current = 5 KA.
CE Conformity	These transmitters are in conformity with the Radio Equipment Directive, ETSI EN 300 328 V2.1.1 including EMC standard EN61326-1 2013

Physical Specifications

Parameter	Description
Mounting Bracket	Carbon Steel (zinc-plated) or Stainless Steel angle bracket or flat bracket available.
Electronic Housing	Meets NEMA 4X (hosedown and corrosion resistant), IP 66/67 (hosedown and submersible to 1m). Epoxy-Polyester hybrid paint. Low Copper-Aluminum with 1/2" NPT or M20 Conduit Connections.
Stainless Steel Housing (option)	316 SS Electronics Housing - with M20 Conduit Connections 316 SS Housing with 1/2" NPT Conduit Connection 316 SS or Grade CF8M, the casting equivalent of 316 SS with M20 or 1/2" NPT Conduit Connection. If ordered with the Remote Antenna options, the antenna parts are not SS or Marine type cables; the integral antenna uses SS parts.
Process Connections	1/4-inch NPT; 1/2-inch NPT with adapter. Process heads meet DIN 19213 requirements.
Mounting	Can be mounted in virtually any position using the standard mounting bracket. Mounting should result in the antenna being vertically oriented. Bracket is designed to mount on 2-inch (50 mm) vertical or horizontal pipe. See Figure 2 .
Dimensions	See Error! Reference source not found. , Figure 4 and Figure 5
Net Weight	Approximately 11 pounds (5 Kg) for STGW7X0, and 7 pounds (3.2 kg) for STGW7XL

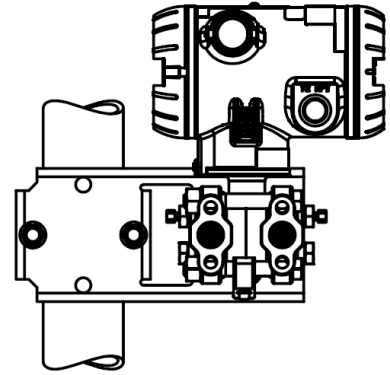
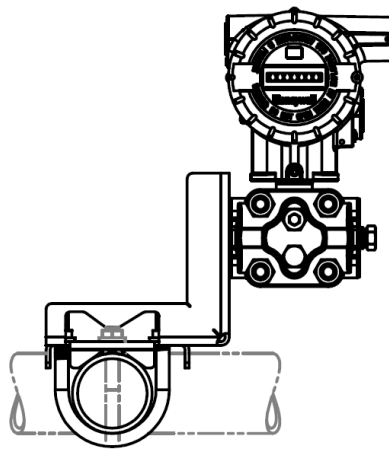
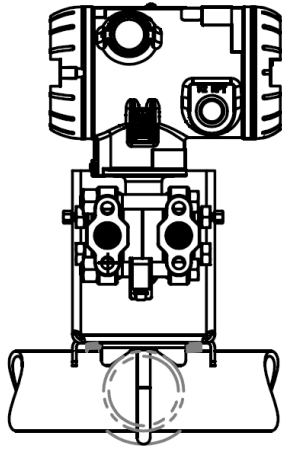
Materials Specifications (see model selection guide for availability/restrictions with various models)

Parameter	Description
Barrier Diaphragms Material	STG700 Dual Head: 316L SS, Hastelloy® C-276 ² STG700 Inline: 316L SS, Hastelloy® C-276 ²
Process Head Material	STG700 Dual Head: 316 SS ³ STG700 Inline: 316L SS
Vent/Drain Valves & Plugs ¹	STG700 Dual Head: 316 SS ³ STG700 Inline: N/A
Head Gaskets	STG700 Dual Head: Glass-filled PTFE standard. STG700 Inline: N/A
Meter Body Bolting	STG700 Dual Head: Carbon Steel (Zinc plated) standard. Options include 316 SS, NACE A286 SS bolts and nuts. STG700 Inline: N/A
Fill Fluid	Silicone DC 200 oil, NEOBEE M-20, or CTFE (Chlorotrifluoroethylene)

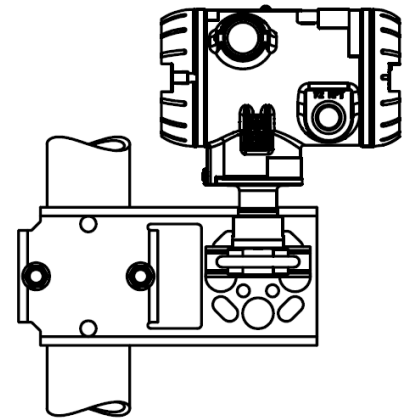
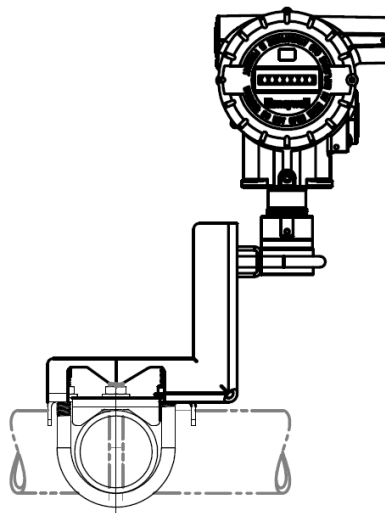
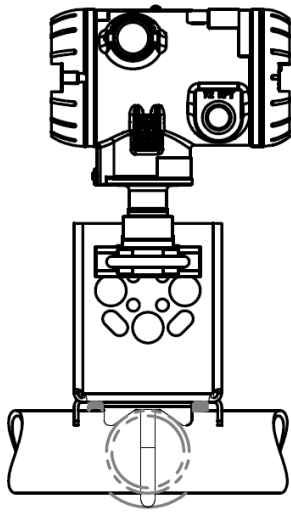
¹ Vent/Drains are sealed with Teflon®

² Hastelloy C-276 or UNS N10276

³ Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS.



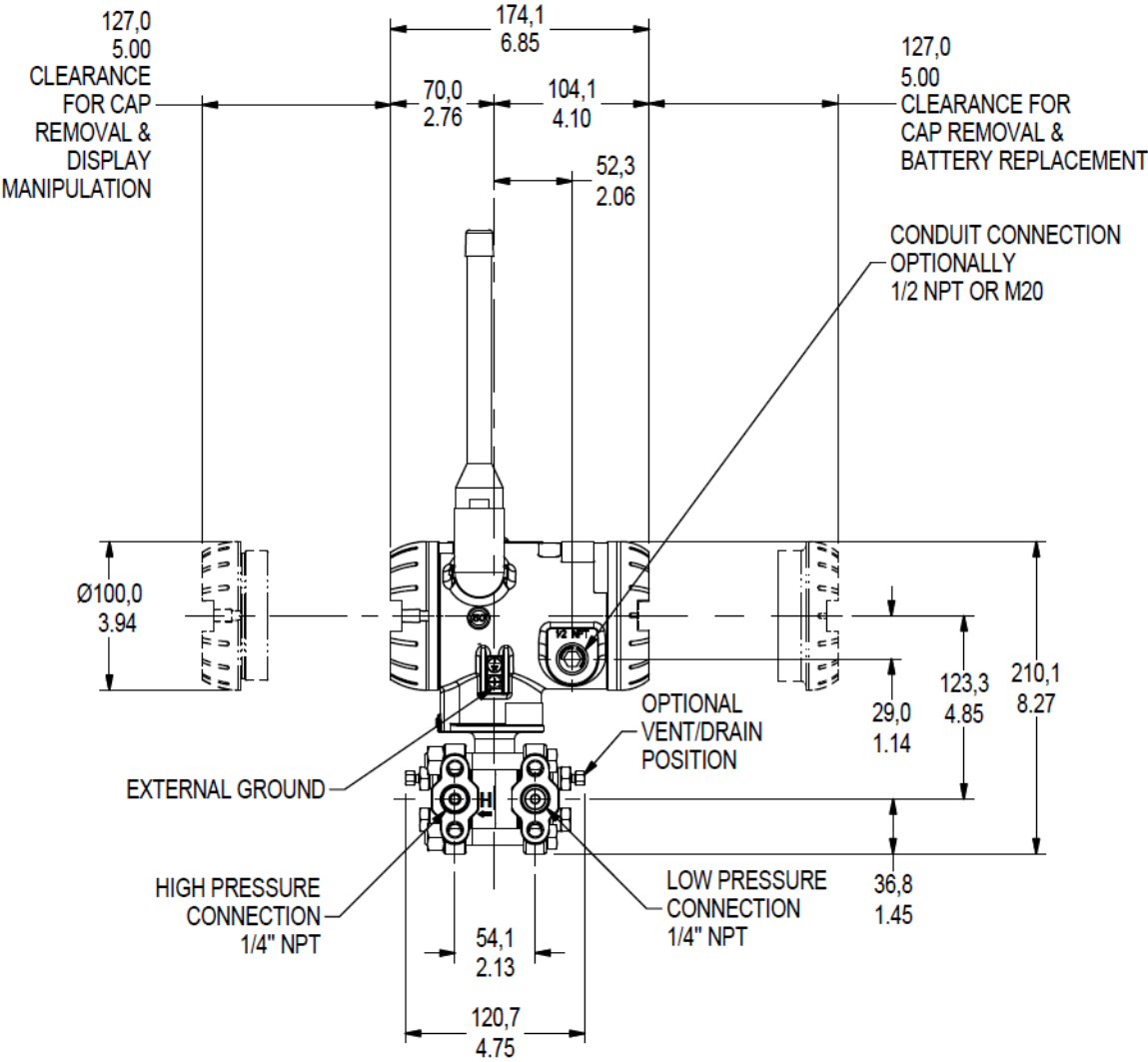
Dual Head Gauge



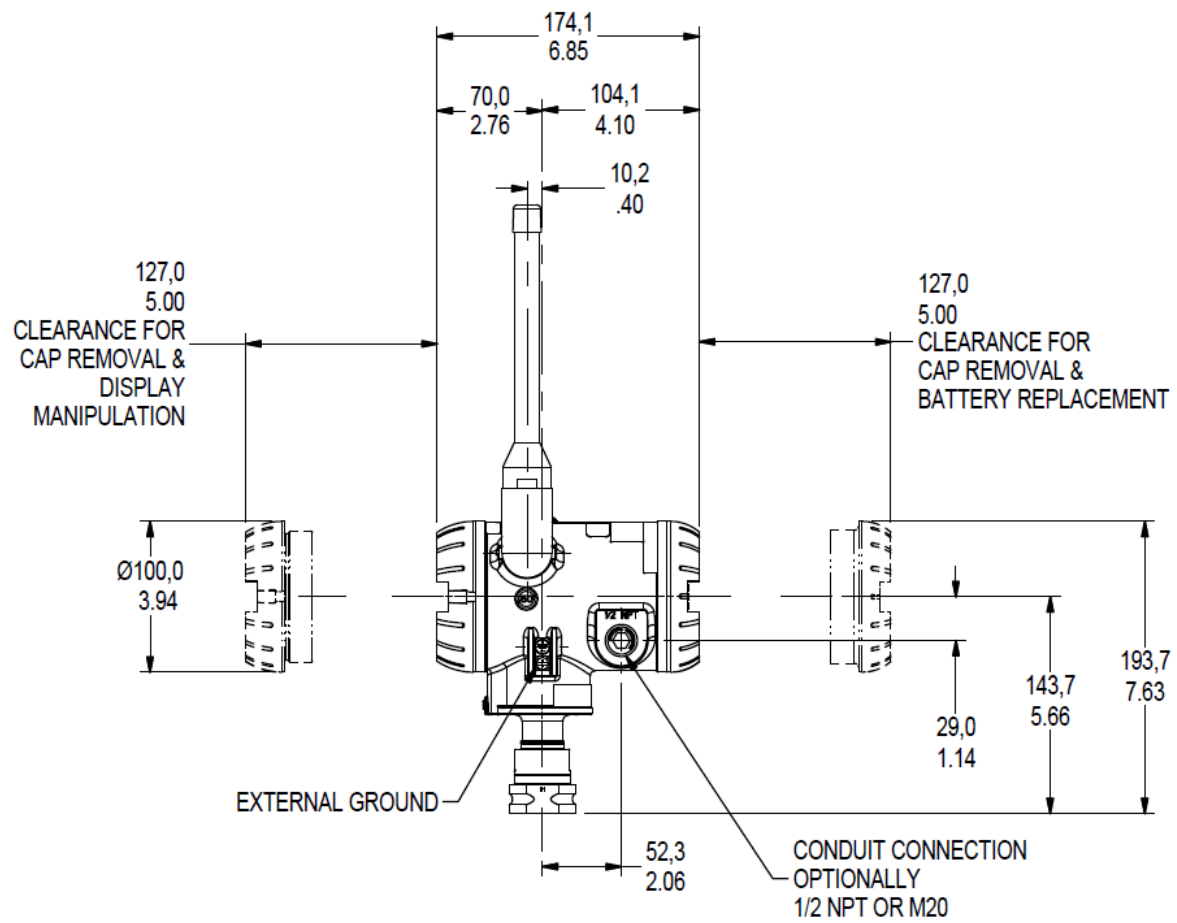
In-Line Gauge

Figure 2 — Examples of typical mounting positions (antenna omitted)

Reference Dimensions: $\frac{\text{millimeters}}{\text{inches}}$

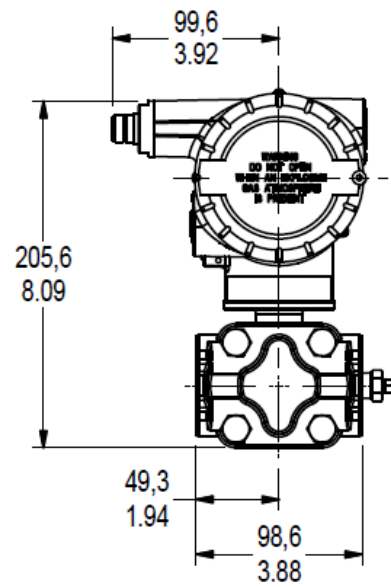


Dual Head Gauge

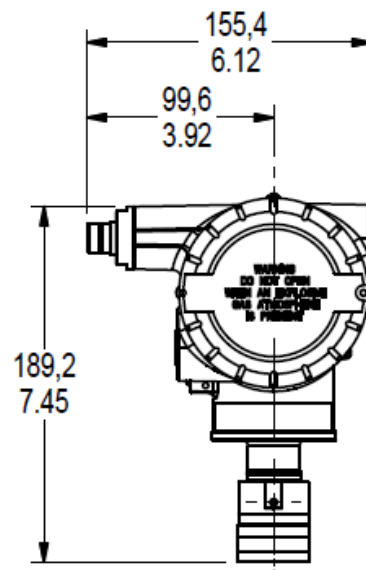


In-Line Gauge

Figure 3 – Informational and dimensional drawing

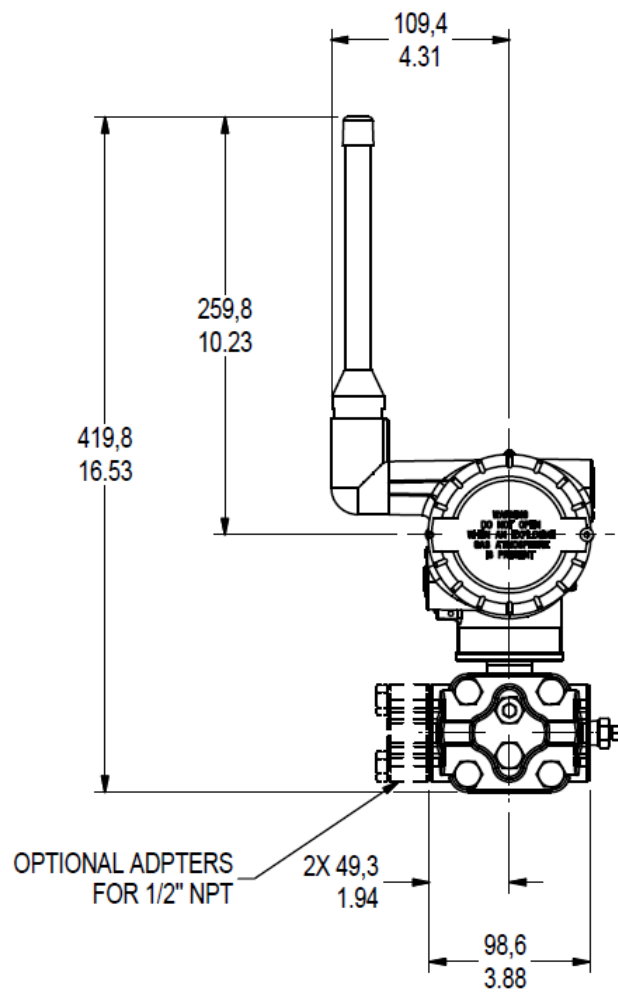


Dual Head Gauge



In-Line Gauge

Figure 4 — Typical mounting dimensions for STDW740, STDW770, STDW7(3,4,7,8,9)L (rear view)



Dual Head Gauge

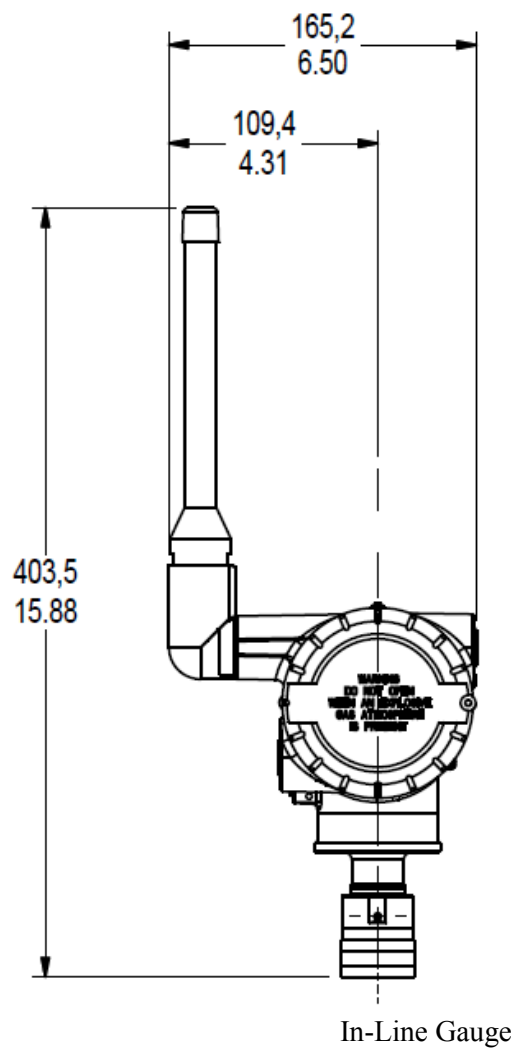


Figure 5 — Typical mounting dimensions for STDW740, STDW770, STDW7(3,4,7,8,9)L (rear view)

Hazardous Locations Approvals

Refer to control drawing 50136123, in the User's manual #34-SW-25-01, for intrinsically safe installation details

AGENCY	TYPE OF PROTECTION	Ambient Temperature
CSA (USA and Canada)	Intrinsically Safe: Class I; Division 1; Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; T4 Class I, Zone 0 Ex ia IIC T4 Class I, Zone 0 AEx ia IIC T4	-40 °C to +85 °C
	Nonincendive: Class I; Division 2; Groups A, B, C, D; Class II, Division 2, Groups E, F, G; Class III, Division 2, T6..T5 Class I, Zone 0/2 ec [ia] IIC, T6..T5 Class I, Zone 0/2 AEx ec [ia] IIC, T6..T5	-40 °C to +85 °C : T5 -40 °C to +70 °C : T6
	Explosion-Proof/ Flameproof/Dust Proof: Class I, Division 1; Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; T6..T5 Class I, Zone 0/1 Ex d [ia] IIC T6..T5 Class I, Zone 0/1 AEx d [ia] IIC, T6..T5 DIP A21/II, III/1/EFG/Ex tb IIIC T95C	-40 °C to +85 °C : T5, T95C -40 °C to +70 °C : T6
	Enclosure: Type 4X/ IP66/ IP67	

AGENCY	TYPE OF PROTECTION	Ambient Temperature
FM Approvals™ (USA)	Intrinsically Safe: IS Class I, II, III; Division 1; Groups ABCDEFG; T4 Class I, Zone 0 AEx ia IIC Ga T4 Class I, Zone 2[0] AEx ic [ia Ga] IIC Gc T4	-40 °C to +85 °C
	Nonincendive: NI-AIS Class I; DIV 2; Groups ABCD; T5..T6 Class I, Zone 2[0] AEx nA [ia Ga] IIC Gc, T5..T6	-40 °C to +85 °C : T5 -40 °C to +70 °C : T6
	Dust Proof: DIP-AIS Class II, III DIV 1, Groups EFG; T5..T6 Zone 21[20] AEx tb [ia Da] IIIC T95°C Db	-40 °C to +85 °C : T5, T95°C -40 °C to +70 °C : T6
	Enclosure: Type 4X/ IP66/ IP67	

AGENCY	TYPE OF PROTECTION	Ambient Temperature
ATEX	Intrinsically Safe: II 1 G Ex ia IIC T4 Ga II 3 G Ex ic IIC T4 Gc	-40 ° C to +85 ° C
	Flameproof / Dust Proof: II 2[1] G Ex d [ia] IIC T6..T5 Gb[Ga] II 2[1] D Ex tb [ia] IIIC T95C Db[Da]	-40 ° C to +85 ° C : T5, T95C -40 ° C to +70 ° C : T6
	Nonincendive: II 3[1] G Ex ec [ia] IIC T6..T5 Gc[Ga]	-40 ° C to +85 ° C : T5 -40 ° C to +70 ° C : T6
	Enclosure: IP66/ IP67	

AGENCY	TYPE OF PROTECTION	Ambient Temperature
IECEX	Intrinsically Safe: Ex ia IIC T4 Ga Ex ic IIC T4 Gc	-40 ° C to +85 ° C
	Flameproof / Dust Proof: Ex db [ia] IIC T6..T5 Gb[Ga] Ex tb [ia] IIIC Db[Da] T95C	-40 ° C to +85 ° C : T5, T95C -40 ° C to +70 ° C : T6
	Nonincendive: Ex ec [ia] IIC T6..T5	-40 ° C to +85 ° C : T5 -40 ° C to +70 ° C : T6
	Enclosure: IP66/ IP67	

Transmitter Options (indicated selection code is shown)

ISA100 Wireless Release Selections (A or B)

OneWireless R2xx represents the previous releases whereas R3xx is the current release. A OneWireless system with R3xx firmware can host R2xx and R3xx devices. Please select the option to match the targeted OneWireless system.

Remote Antenna and Cables (M or D)

The user can select one of the optional remote antennas listed. The selection of the antenna option automatically includes the remote antenna adapter.

To complete the option selection, one of the remote antenna cables (1, 2, or 3) must also be selected.

Lightning (Surge) Diverter and Cables (1, 2, or 3)

The lightning surge diverter options includes the surge diverter and cable. The diverter features Type N connections (female) on both ends. The remote antenna adapter is not included.

Remote Antenna Adapter (A)

This option provides an adapter to be inserted into the opening where the integral antenna normally connects. The adapter is designed to connect to a remote antenna that the user supplies. It features a female Type N connection.

Standard Diagnostics plus Anti-Alias Filter (3)

This option enables the Anti-Alias filter option which attenuates the higher frequencies and helps to prevent aliasing components from being sampled.

Destination Country (CA, EU, or US)

This selection sets the transmission power at the factory to comply with the installation country location.

Custom Configuration (C)

Customer specified configuration parameters are programmed into the transmitter at the factory. Configuration information needs to be communicated to Honeywell Order Management at time of order entry.

Additionally, the Honeywell OneWireless user interface is accessible through any browser and thus all configurable parameters are visible and can be edited.

Custom Calibration (B)

Custom calibration would input customer specified LRV and URV values, and check linearity. LRV and URV information needs to be communicated to Honeywell Order Management at time of order entry.

Mounting Brackets (1, 3, 5, or 7)

The angle mounting bracket is available in either zinc-plated carbon steel or 316 stainless steel and is suitable for horizontal or vertical mounting on a two-inch (50 millimeter) pipe, as well as wall mounting.

An additional flat mounting bracket is also available in carbon steel and 316 stainless steel for two-inch (50 millimeter) pipe mounting.

Tagging (Option 1 or 2)

The choice of 1 or 2 stainless steel wired-on tags is available. Each tag can accommodate additional data of up to 4 lines of 28 characters. The number of characters includes spaces.

Note that the standard nameplate on the meter body contains the serial number and body-related data.

Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

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For more information

To learn more about SmartLine Transmitters,
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Or contact your Honeywell Account Manager

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