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ДАТЧИКИ ДАВЛЕНИЯ

Технические характеристики на
STGW74L, STGW77L, STGW78L,
STGW79L, STGW740, STGW770

SmartLine Wireless Gauge Pressure Transmitter Specification

34-SW-03-08

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.

Models:

Models	Type	Range (Psi)	Range (bar)
STGW740	Dual Head	0 to 500 psi	0 to 35,000 mbar
STGW770	Dual Head	0 to 3,000 psi	0 to 210,000 mbar
STGW73L	In-Line	0 to 50 psi	0 to 3,500 mbar
STGW74L	In-Line	0 to 500 psi	0 to 35,000 mbar
STGW77L	In-Line	0 to 3,000 psi	0 to 210,000 mbar
STGW78L	In-Line	0 to 6,000 psi	0 to 420,000 mbar
STGW79L	In-Line	0 to 10,000 psi	0 to 690,000 mbar



Figure 1 — SmartLine Wireless Gauge Pressure Transmitters

Without wires, transmitters can be installed 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 4 dBi 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 in-line 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 0.015% of URL per year for five years
- Automatic temperature compensation
- 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 (0.35)
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 (0.035)
STGW74L	500 (35)	-14.7 (-1.0)	5 (0.35)
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)

SmartLine 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 Wireless HART™ 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 ensure.

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 (18.0 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 two 10 m cables and lightning surge arrester Remote – 14 dBi directional parabolic with up to two 10 m cables and lightning surge arrester.
Signal Range	Nominal 350 m (1150 feet) between field transmitter and infrastructure unit (e.g. 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 ⁴	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	-40 to 185				
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 H ₂ O 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) STGW77L: 3000 psi (210 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 (LiSOCI ₂) batteries, non-rechargeable, size D. Battery pack-only option is available. Approved list of the manufacturer models: <ol style="list-style-type: none"> Xeno Energy XL-205F Eagle Picher PT-2300H Tadiran TL-5930/s 							
	24 VDC power option. 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							

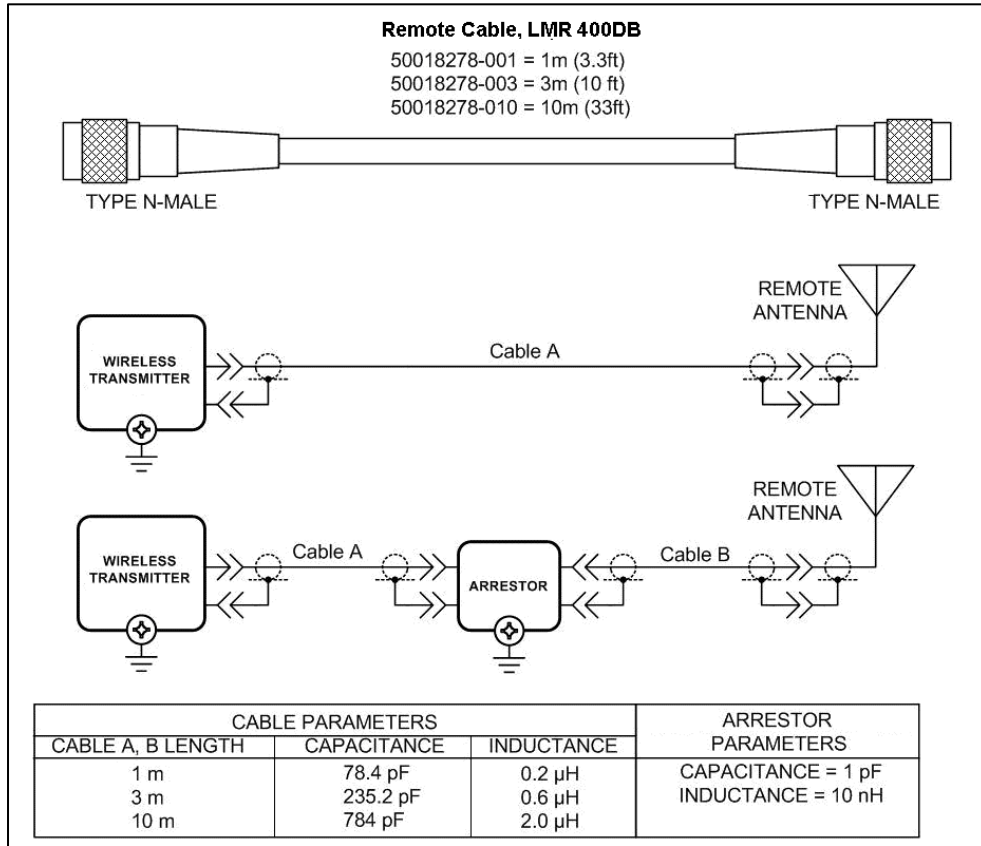
¹ Short term equals 2 hours at 70°C (158°F)

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

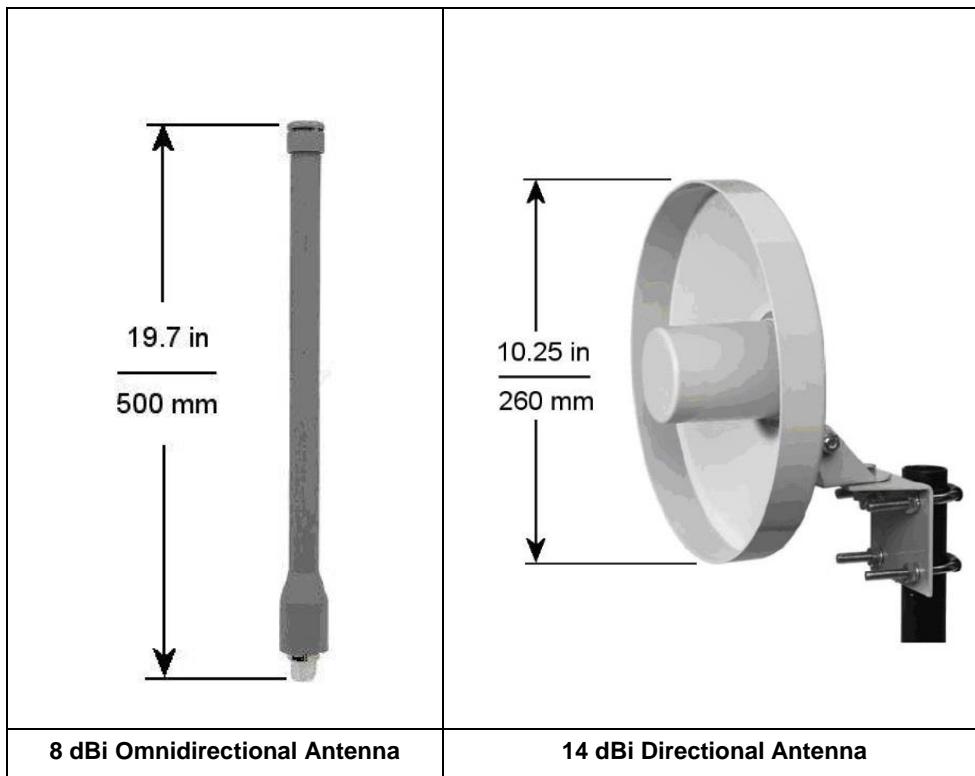
³ Consult factory for MAWP of SmartLine Wireless transmitters with CRN approval.

⁴ The Ambient Limits shown are for Ordinary Non-Hazardous locations only. Refer to the Hazardous Locations Approvals section for the Ambient Limits when installed in Hazardous Locations.

Remote Antenna Cables



Remote Antennas



Performance Specifications

Performance Under Rated Conditions* - Models STGW73L (0 to 50 psi/3.5 bar)

Parameter	Description
Upper Range Limit psi bar	50 3.5
Minimum Span psi bar	0.5 0.035
Zero Elevation and Suppression	No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) Accuracy includes residual error after averaging successive readings.	±0.065% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (5 psi), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{5 \text{ psi}}{\text{span/ psi}} \right) \right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{0.7 \text{ bar}}{\text{span/ bar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)	±0.15% of span. For URV below reference point (10 psi), effect equals: $\pm 0.15 \left(\frac{10 \text{ psi}}{\text{span/ psi}} \right) \text{ or } \pm 0.15 \left(\frac{1.4 \text{ bar}}{\text{span/ bar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.225% of span. For URV below reference point (10 psi), effect equals: $\pm \left[0.075 + 0.15 \left(\frac{10 \text{ psi}}{\text{span/ psi}} \right) \right] \text{ or } \pm \left[0.075 + 0.15 \left(\frac{1.4 \text{ bar}}{\text{span/ bar}} \right) \right] \text{ in \% of span}$
Stability	±0.015% of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions* - Models STGW740 & 74L (0 to 500 psi/35 bar)

Parameter	Description
Upper Range Limit psi bar	500 35
Minimum Span psi bar	5 0.35
Zero Elevation and Suppression	No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) Accuracy includes residual error after averaging successive readings.	±0.065% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (20 psi), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{20 \text{ psi}}{\text{span/ psi}} \right) \right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{1.4 \text{ bar}}{\text{span/ bar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)	±0.15% of span. For URV below reference point (50 psi), effect equals: $\pm 0.15 \left(\frac{50 \text{ psi}}{\text{span/ psi}} \right) \text{ or } \pm 0.15 \left(\frac{3.5 \text{ bar}}{\text{span/ bar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.225% of span. For URV below reference point (50 psi), effect equals: $\pm \left[0.075 + 0.15 \left(\frac{50 \text{ psi}}{\text{span/ psi}} \right) \right] \text{ or } \pm \left[0.075 + 0.15 \left(\frac{3.5 \text{ bar}}{\text{span/ bar}} \right) \right] \text{ in \% of span}$
Stability	±0.015% of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions* - Models STGW770 & 77L (0 to 3,000 psi/210 bar)

Parameter		Description
Upper Range Limit	psi bar	3,000 210
Minimum Span	psi bar	30 2.1
Zero Elevation and Suppression		No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) •Accuracy includes residual error after averaging successive readings.		±0.075% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (750 psi), accuracy equals: $\pm \left[0.025 + 0.05 \left(\frac{750 \text{ psi}}{\text{span/psi}} \right) \right] \text{ or } \pm \left[0.025 + 0.05 \left(\frac{52 \text{ bar}}{\text{span/bar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)		±0.20% of span. For URV below reference point (500 psi), effect equals: $\pm 0.20 \left(\frac{500 \text{ psi}}{\text{span/psi}} \right) \text{ or } \pm 0.20 \left(\frac{35 \text{ bar}}{\text{span/bar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)		±0.30% of span. For URV below reference point (500 psi), effect equals: $\pm \left[0.10 + 0.20 \left(\frac{500 \text{ psi}}{\text{span/psi}} \right) \right] \text{ or } \pm \left[0.10 + 0.20 \left(\frac{35 \text{ bar}}{\text{span/bar}} \right) \right] \text{ in \% of span}$
Stability		±0.03% of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions* - Model STGW78L (0 to 6,000 psi/415 bar)

Parameter		Description
Upper Range Limit	psi bar	6,000 415
Minimum Span	psi bar	60 4.2
Zero Elevation and Suppression		No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) •Accuracy includes residual error after averaging successive readings.		±0.075% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (1,000 psi), accuracy equals: $\pm \left[0.025 + 0.05 \left(\frac{1000 \text{ psi}}{\text{span/psi}} \right) \right] \text{ or } \pm \left[0.025 + 0.05 \left(\frac{70 \text{ bar}}{\text{span/bar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)		±0.20% of span. For URV below reference point (1,000 psi), effect equals: $\pm 0.20 \left(\frac{1,000 \text{ psi}}{\text{span/psi}} \right) \text{ or } \pm 0.20 \left(\frac{70 \text{ bar}}{\text{span/bar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)		±0.30% of span. For URV below reference point (1,000 psi), effect equals: $\pm \left[0.10 + 0.20 \left(\frac{1,000 \text{ psi}}{\text{span/psi}} \right) \right] \text{ or } \pm \left[0.10 + 0.20 \left(\frac{70 \text{ bar}}{\text{span/bar}} \right) \right] \text{ in \% of span}$
Stability		±0.03% of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions* - Model STGW79L (0 to 10,000 psi/690 bar)

Parameter	Description
Upper Range Limit psi bar	10,000 690
Minimum Span psi bar	100 6.9
Zero Elevation and Suppression	No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) •Accuracy includes residual error after averaging successive readings.	±0.075% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (2,500 psi), accuracy equals: $\pm \left[0.025 + 0.05 \left(\frac{2,500 \text{ psi}}{\text{span/psi}} \right) \right] \text{ or } \pm \left[0.025 + 0.05 \left(\frac{173 \text{ bar}}{\text{span/bar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)	±0.20% of span. For URV below reference point (1,800 psi), effect equals: $\pm 0.20 \left(\frac{1,800 \text{ psi}}{\text{span/psi}} \right) \text{ or } \pm 0.20 \left(\frac{124 \text{ bar}}{\text{span/bar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.30% of span. For URV below reference point (1,000 psi), effect equals: $\pm \left[0.10 + 0.20 \left(\frac{1,800 \text{ psi}}{\text{span/psi}} \right) \right] \text{ or } \pm \left[0.10 + 0.20 \left(\frac{124 \text{ bar}}{\text{span/bar}} \right) \right] \text{ in \% of span}$
Stability	±0.03% of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions – All Models

Parameter	Description
Electromagnetic Compatibility	IEC 61326-1
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	Epoxy-Polyester hybrid paint. Low Copper-Aluminum with 1/2" NPT or M20 conduit connections. Meets NEMA 4X (hosedown and corrosion resistant), IP 66/67 (hosedown and submersible to 1m).
Stainless Steel Housing (option)	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 and Figure 3.
Dimensions	See Figure 4 , Figure 5 , Figure 6 , Figure 7 , Figure 8 and Figure 9 .
Net Weight	Approximately 11 pounds (5 Kg) for STGW7X0, and 7 pounds (3.2 kg) for STGW7XL ¹

¹ Add 8.0 pounds (3.6 kg) to any model equipped with stainless steel housing option (Model Selection Guide Table IV selection M or N)

Materials Specifications

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

Parameter	Description
Barrier Diaphragms Material	STGW700 Dual Head: 316L SS, Hastelloy® C-276 ² STGW700 Inline: 316L SS, Hastelloy® C-276 ²
Process Head Material	STGW700 Dual Head: 316 SS ³ STGW700 Inline: 316L SS
Vent/Drain Valves & Plugs ¹	STGW700 Dual Head: 316 SS ³ STGW700 Inline: N/A
Head Gaskets	STGW700 Dual Head: Glass-filled PTFE standard. STGW700 Inline: N/A
Meter Body Bolting	STGW700 Dual Head: Carbon Steel (Zinc plated) standard. Options include 316 SS, NACE A286 SS bolts and nuts. STGW700 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.

Mounting and Dimensions

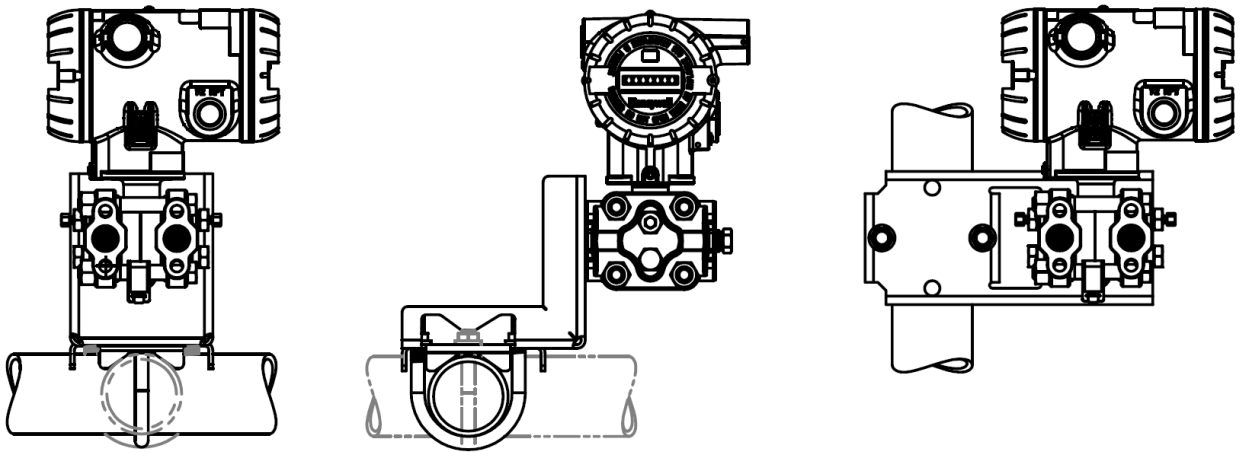


Figure 2: Dual Head Gauge, example of typical mounting positions (antenna omitted)

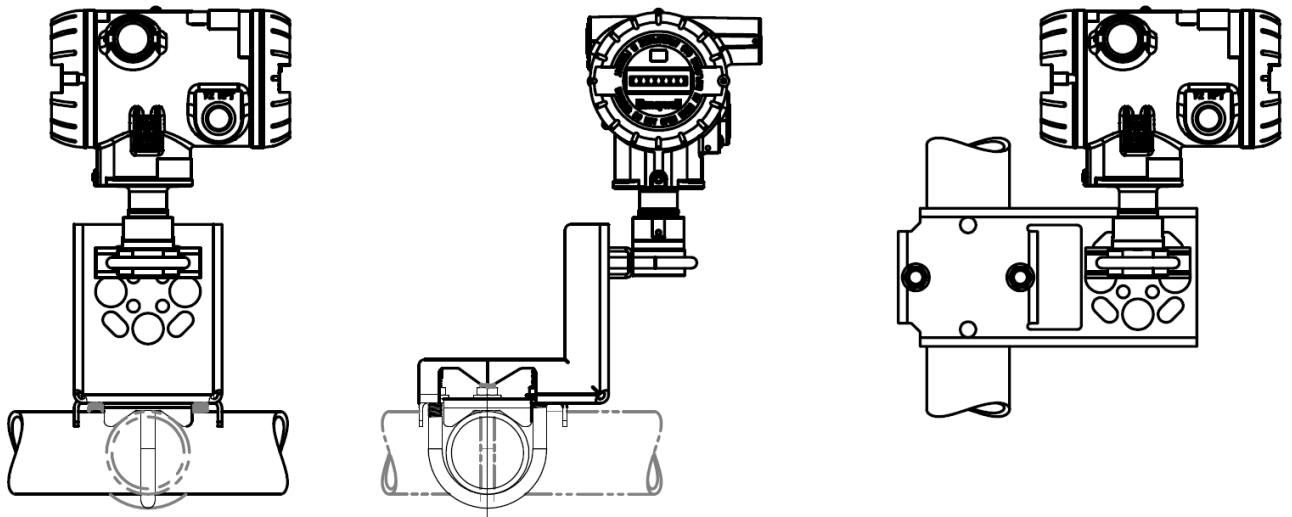


Figure 3 — In-Line Gauge, examples of typical mounting positions (antenna omitted)

Mounting and Dimensions

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

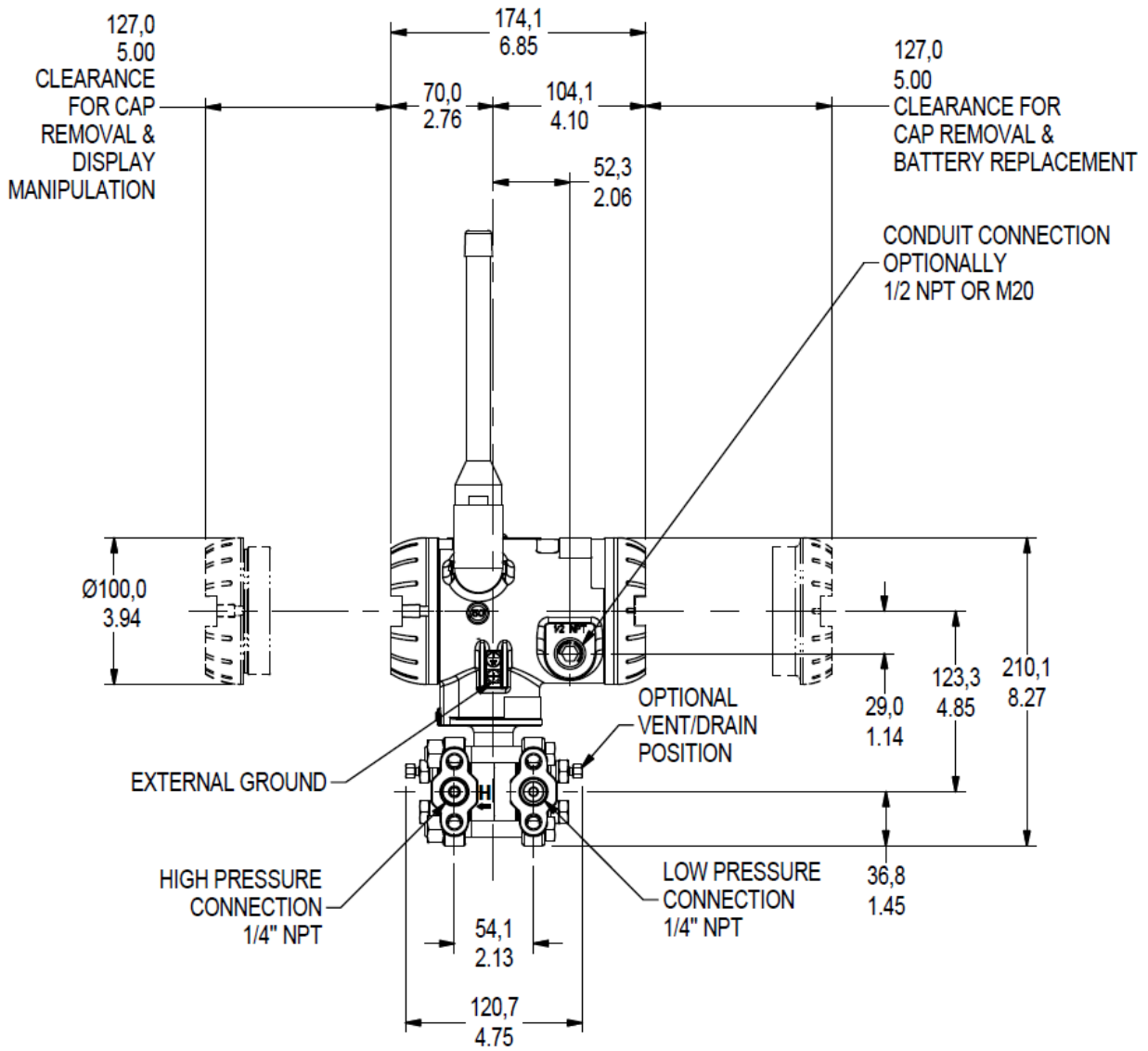


Figure 4: Dual Head Gauge Informational and dimensional drawing

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