Honeywell
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SmartLine Wireless Differential Pressure Transmitter Specification

34-SW-03-01, August 2019

Models:

STDW810	0 to 10 in H2O	0 to 25 mbar
STDW820	0 to 400 in H_2O	0 to 1,000 mbar
STDW830	0 to 100 psi	0 to 7,000 mbar
STDW870	0 to 3,000 psi	0 to 210,000 mbar

Introduction

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

With over 14 years of industrial wireless experience, the SmartLine Wireless Pressure builds upon the current XYR 6000 product porfotlio while also being able to operate seamlessly in the same wireless network. 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 incorporaton of the enhanced SmartLine Pressure meter body. By utilizing the same meter body as in the non-wireless pressure product offering, users get the best-in-class performance, and a reduction in spares inventory while also taking advantage of existing familiarity and knowledge.

Of course, SmartLine Wireless Pressure transmitters feature all the advantages of wireless transmitters like easy access of data from remote and hazardous thus safeguarding plant personnel from unnecessary exposure, or where running wire is cost prohibitive. Without wires, transmitters can be installed and operational in minutes, quickly providing information back to your system and thus start delivering on project ROI.

Figure 1 — SmartLine Wireless Differential Pressure Transmitters

Previous generation transmitters primarily were applied to monitoring applicaions 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 transmiiters 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 provisionng key for better security
- Remote and integral antenna options
- 24 VDC power option
- Publication rates of 1, 5, 10, or 30 seconds, plus new selections of ½ sec, and 1, 5, 15, 30, 60 minutes
- Transmitter range (integral antenna) of 1150 feet (350m) under ideal conditions.

The STDW800 differential pressure series can be used with any primary flow element to provide proven, repeatable flow measurement.

Span & Range Limits:

Model	URL “H_2O (mbar)	LRL “H_2O (mbar)	Max Span “H_2O (mbar)	Min Span “H_2O (mbar)
STDW810	10 (25)	-10 (-25)	10 (25)	0.1 (0.25)
STDW820	400 (1000)	-400 (-1000)	400 (1000)	1.0 (2.5)
Model	**psi (bar)**	**psi (bar)**	**psi (bar)**	**psi (bar)**
STDW830	100 (7.0)	-100 (-7.0)	100 (7.0)	1 (0.07)
STDW870	3000 (210)	-100 (-7.0)	3000 (210)	30 (2.1)

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. Over-the-air provisioning 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 a safe environment.

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 for each wireless transmitter and thus the network can consist of a mixture of meshing and non-meshing devices. Non-meshing is typically 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 at Level 2 (Purdue model) or the 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, with both types of devices operating in real-time under a single network.

The ability to deploy redundant WDMs improves reliability and ensures no loss of process data, which is a fundamental requirement for control applications.

The Field Device Access Point (FDAP) serves in two roles in the OneWireless network infrastructure: 1) an access point, and as 2) a field router. As an access point, the FDAP connects directly 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 requiring no battery changes, and the FDAP offers greater range.

FDAPs can also mesh and thus allows additional flexibility in the setup of the wireless network to fit wireless network performance requirements (typically in terms of reliable communications, performance, and future growth). The choice of a 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 (18.0 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, 5, 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 (1,150 ft) 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[5]	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[1]	-40 to 230[1]	-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 (except STDW810) **mmHg absolute** **in H_2O absolute**	Atmospheric Atmospheric		25 13		2 (short term[2]) 1 (short term[2])			
Maximum Allowable Working Pressure (MAWP) [3,4] (STDW800 products are rated to Maximum Allowable Working Pressure. MAWP depends on approval agency and transmitter materials of construction.)	**Standard:** STDW810 = 50 psi, 3.45 bar STDW820, STDW830, and STDW870 = 4,500 psi, 310.2 bar **Optional:** STDW820, STDW830, and STDW870 = 6,000 psi, 413.7 bar Static Pressure Limit = Maximum Allowable Working Pressure (MAWP) = Overpressure Limit							
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. Approved list of the manufacturer models: 1. Xeno Energy XL-205F 2. Eagle Picher PT-2300H 3. Tadiran TL-5930/s Battery pack-only option is available.							
	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] For CTFE fill fluid, the rating is –15°C to 110°C (5°F to 230°F); for the STDW820 model at temperatures below -15°C (5°F) the URL is reduced to 100" H_2O.

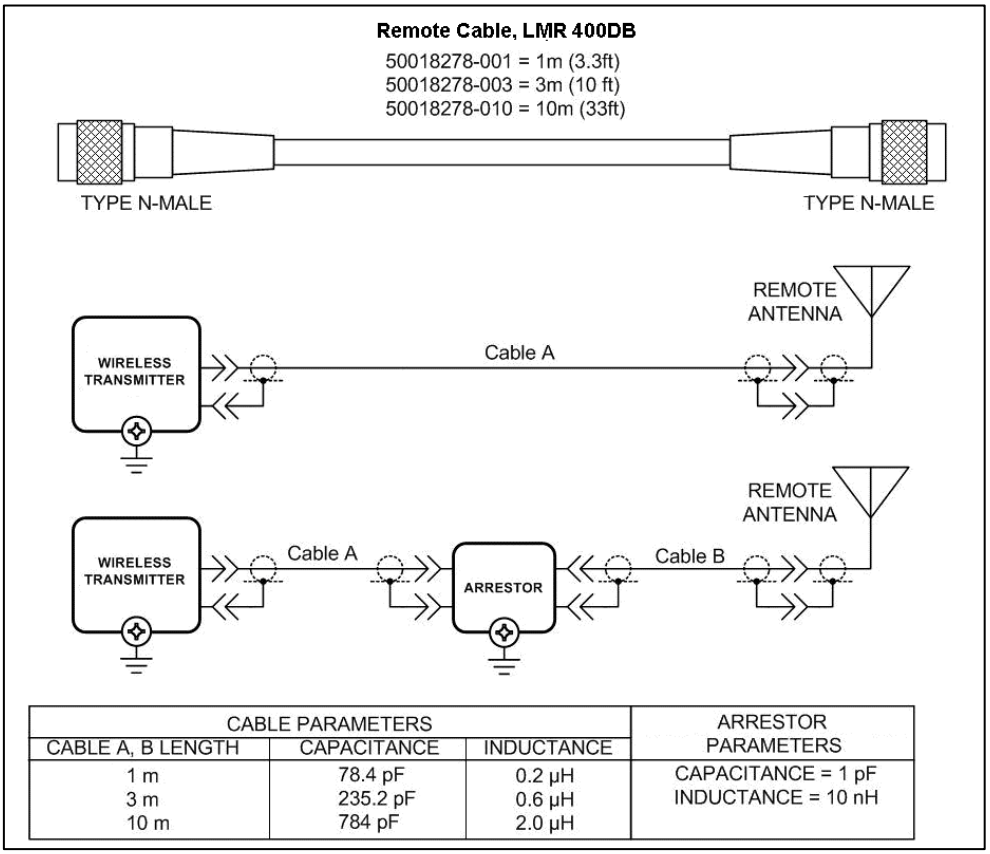
[2] Short term equals 2 hours at 70°C (158°F)

[3] MAWP applies for temperature range –40 to 125°C. However Static Pressure Limit is de-rated to 3000 psi from -26°C to -40°C. Use of graphite o-rings de-rates transmitter to 3625 psi. Use of Adapter with graphite o-rings de-rates transmitter to 3000 psi.

[4] Consult factory for MAWP of SmartLine Wireless transmitters with CRN approval.

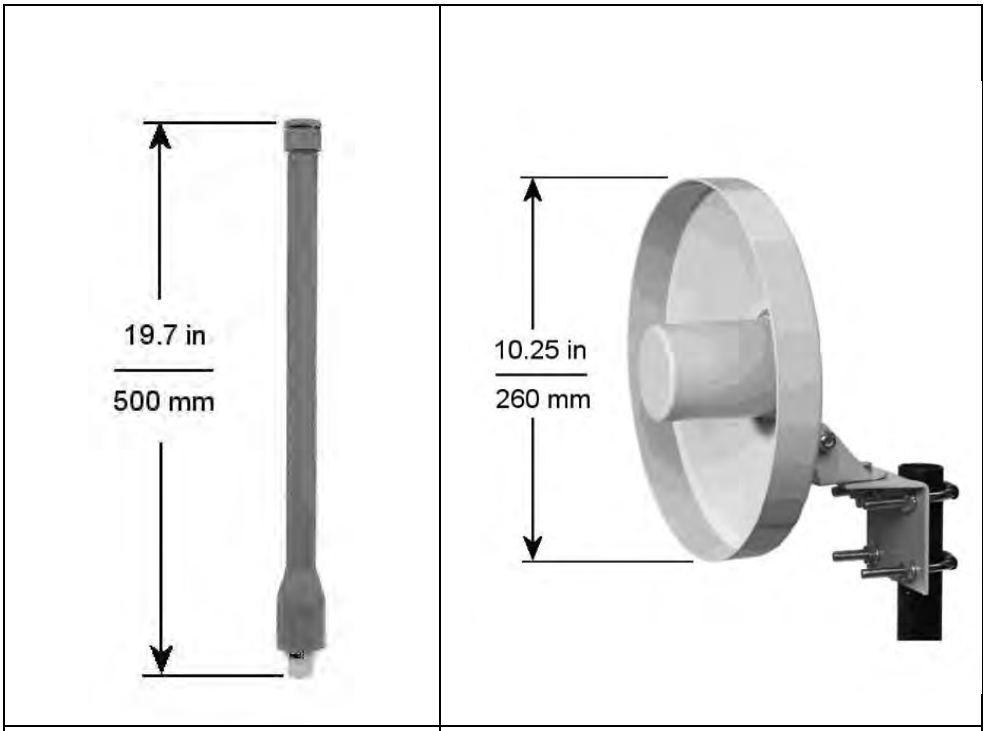
[5] The Ambient Limits shown are for Ordinary Non-Hazardous locations only. Refer to the Hazardous Locations Approvals section for the Ambient Limits when installed in Hazardous Locations.

Remote Antenna Cables



CABLE PARAMETERS			ARRESTOR PARAMETERS
CABLE A, B LENGTH	CAPACITANCE	INDUCTANCE	
1 m 3 m 10 m	78.4 pF 235.2 pF 784 pF	0.2 µH 0.6 µH 2.0 µH	CAPACITANCE = 1 pF INDUCTANCE = 10 nH

Remote Antennas



8 dBi Omnidirectional Antenna	14 dBi Directional Antenna

Performance Specifications

Performance under Rated Conditions* - Model STDW810 (0 to 10 inH$_2$O / 25 mbar)

Parameter	Description
Upper Range Limit in H$_2$O mbar	10 (39.2°F/4°C is standard reference temperature for in H$_2$O range.) 25
Minimum Span in H$_2$O mbar	0.1 0.25
Zero Elevation and Suppression	–5 to +100% URL
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) • *Accuracy includes residual error after averaging successive readings.*	±0.0375% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (1 in H$_2$O), accuracy equals: $\pm 0.0125 + 0.025\left(\frac{1\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)$ or $\pm\left[0.0125 + 0.025\left(\frac{2.5\ \text{mbar}}{\text{span mbar}}\right)\right]$ in % of span
Zero Temperature Effect per 28°C (50°F)	±0.20% of span. For URV below reference point (2 in H$_2$O), effect equals: $\pm 0.20\left(\frac{2\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)$ or $\pm 0.20\left(\frac{5\ \text{mbar}}{\text{span mbar}}\right)$ in % of span
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.225% of span. For URV below reference point (2 in H$_2$O), effect equals: $\pm\left[0.025 + 0.20\left(\frac{2\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)\right]$ or $\pm\left[0.025 + 0.20\left(\frac{5\ \text{mbar}}{\text{span mbar}}\right)\right]$ in % of span
Zero Static Pressure Effect per 1000 psi (70 bar)	±0.075% of span. For URV below reference point (2 in H$_2$O), effect equals: $\pm\left[0.0125 + 0.0625\left(\frac{2\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)\right]$ or $\pm\left[0.0125 + 0.0625\left(\frac{5\ \text{mbar}}{\text{span mbar}}\right)\right]$ in % of span
Combined Zero and Span Static Pressure Effect per 1000 psi (70 bar)	±0.15% of span. For URV below reference point (2 in H$_2$O), effect equals: $\pm\left[0.0875 + 0.0625\left(\frac{2\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)\right]$ or $\pm\left[0.0875 + 0.0625\left(\frac{5\ \text{mbar}}{\text{span mbar}}\right)\right]$ in % of span

* Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance under Rated Conditions* - Model STDW820 (0 to 400 inH_2O / 1000 mbar)

Parameter	Description
Upper Range Limit **in H_2O** **mbar**	400 (39.2°F/4°C is standard reference temperature for in H_2O range.) 1,000
Minimum Span **in H_2O** **mbar**	1 2.5
Zero Elevation and Suppression	–5 to +100% URL
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) • *Accuracy includes residual error after averaging successive readings.*	±0.0375% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (25 in H_2O), accuracy equals: $\pm\left\lfloor 0.0125+0.025\left(\frac{25\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)\right\rfloor$ or $\pm\left\lfloor 0.0125+0.025\left(\frac{62\ \text{mbar}}{\text{span mbar}}\right)\right\rfloor$ in % of span
Zero Temperature Effect per 28°C (50°F)	±0.20% of span. For URV below reference point (50 in H_2O), effect equals: $\pm 0.20\left(\frac{50\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)$ or $\pm 0.20\left(\frac{125\ \text{mbar}}{\text{span mbar}}\right)$ in % of span
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.225% of span. For URV below reference point (50 in H_2O), effect equals: $\pm\left\lfloor 0.025+0.20\left(\frac{50\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)\right\rfloor$ or $\pm\left\lfloor 0.025+0.20\left(\frac{125\ \text{mbar}}{\text{span mbar}}\right)\right\rfloor$ in % of span
Zero Static Pressure Effect per 1000 psi (70 bar)	±0.075% of span. For URV below reference point (50 in H_2O), effect equals: $\pm\left\lfloor 0.0125+0.0625\left(\frac{50\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)\right\rfloor$ or $\pm\left\lfloor 0.0125+0.0625\left(\frac{125\ \text{mbar}}{\text{span mbar}}\right)\right\rfloor$ in % of span
Combined Zero and Span Static Pressure Effect per 1000 psi (70 bar)	±0.15% of span. For URV below reference point (50 in H_2O), effect equals: $\pm\left\lfloor 0.0875+0.0625\left(\frac{50\ \text{inH}_2\text{O}}{\text{span inH}_2\text{O}}\right)\right\rfloor$ or $\pm\left\lfloor 0.0875+0.0625\left(\frac{125\ \text{mbar}}{\text{span mbar}}\right)\right\rfloor$ in % of span

* Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance under Rated Conditions* - Model STDW830 (0 to 100 psi/7,000 mbar)

Parameter	Description
Upper Range Limit **psi** **bar**	100 7
Minimum Span **psi** **bar**	1 0.07
Zero Elevation and Suppression	–5 to +100% URL.
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 (15 psi), accuracy equals: $\pm\left\lfloor 0.0125 + 0.05\left(\frac{15\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.0125 + 0.05\left(\frac{1.0\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span
Zero Temperature Effect per 28°C (50°F)	±0.05% of span. For URV below reference point (30 psi), effect equals: $\pm 0.05\left(\frac{30\ \text{psi}}{\text{span psi}}\right)$ or $\pm 0.05\left(\frac{2\ \text{bar}}{\text{span bar}}\right)$ in % of span
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.075% of span. For URV below reference point (30 psi), effect equals: $\pm\left\lfloor 0.025 + 0.05\left(\frac{30\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.025 + 0.05\left(\frac{2\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span
Zero Static Pressure Effect per 1000 psi (70 bar)	±0.075% of span. For URV below reference point (30 psi), effect equals: $\pm\left\lfloor 0.0125 + 0.0625\left(\frac{30\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.0125 + 0.0625\left(\frac{2\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span
Combined Zero and Span Static Pressure Effect per 1000 psi (70 bar)	±0.15% of span. For URV below reference point (30 psi), effect equals: $\pm\left\lfloor 0.0875 + 0.0625\left(\frac{30\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.0875 + 0.0625\left(\frac{2\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span

* Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance under Rated Conditions* - Model STDW870 (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	–0.6 and +100% URL.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) *Accuracy includes residual error after averaging successive readings.*	±0.125% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (300 psi), accuracy equals: $\pm\left\lfloor 0.025 + 0.10\left(\frac{300\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.025 + 0.10\left(\frac{21\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span
Zero Temperature Effect per 28°C (50°F)	±0.10% of span. For URV below reference point (500 psi), effect equals: $\pm 0.10\left(\frac{500\ \text{psi}}{\text{span psi}}\right)$ or $\pm 0.10\left(\frac{35\ \text{bar}}{\text{span bar}}\right)$ in % of span
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.15% of span. For URV below reference point (500 psi), effect equals: $\pm\left\lfloor 0.05 + 0.10\left(\frac{500\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.05 + 0.10\left(\frac{35\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span
Zero Static Pressure Effect per 1000 psi (70 bar)	±0.075% of span. For URV below reference point (500 psi), effect equals: $\pm\left\lfloor 0.0125 + 0.062\left(\frac{500\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.0125 + 0.062\left(\frac{35\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span
Combined Zero and Span Static Pressure Effect per 1000 psi (70 bar)	±0.15% of span. For URV below reference point (500 psi), effect equals: $\pm\left\lfloor 0.088 + 0.062\left(\frac{500\ \text{psi}}{\text{span psi}}\right)\right\rfloor$ or $\pm\left\lfloor 0.088 + 0.062\left(\frac{35\ \text{bar}}{\text{span bar}}\right)\right\rfloor$ in % of span

* Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 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 Carbon Steel flat bracket available (standard options).
Fill Fluid	Silicone DC 200 oil, CTFE (Chlorotrifluoroethylene) or NEOBEE® M-20
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 connections. 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 Figure 3, Figure 4 and Figure 5.
Net Weight	Approximately 11 pounds (5 Kg) [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	316L SS and Hastelloy® C-276[2]
Process Head Material	316 SS[3]
Vent/Drain Valves & Plugs [1]	316 SS[3]
Head Gaskets	Teflon or PTFE (glass filled) is standard.
Meter Body Bolting	Carbon Steel (Zinc plated) standard. Options include 316 SS and NACE A286 SS bolts
Optional Adapter Flange and Bolts	Adapter flange material is 316 SS. Bolt material for flanges is dependent on process head bolts material chosen. Standard adaptor seal material is glass-filled PTFE

[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

Reference Dimensions: millimeters / inches

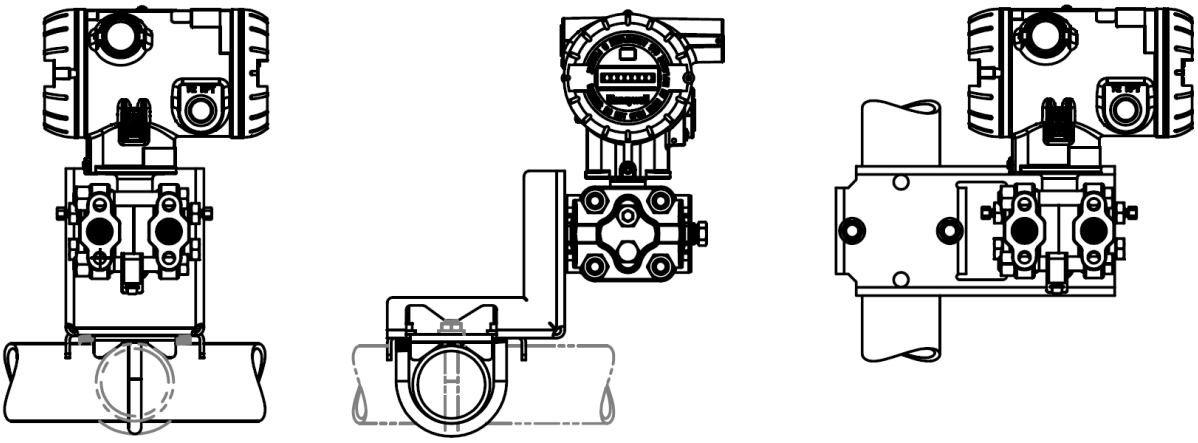


Figure 2 — Examples of typical mounting positions (antenna omitted)

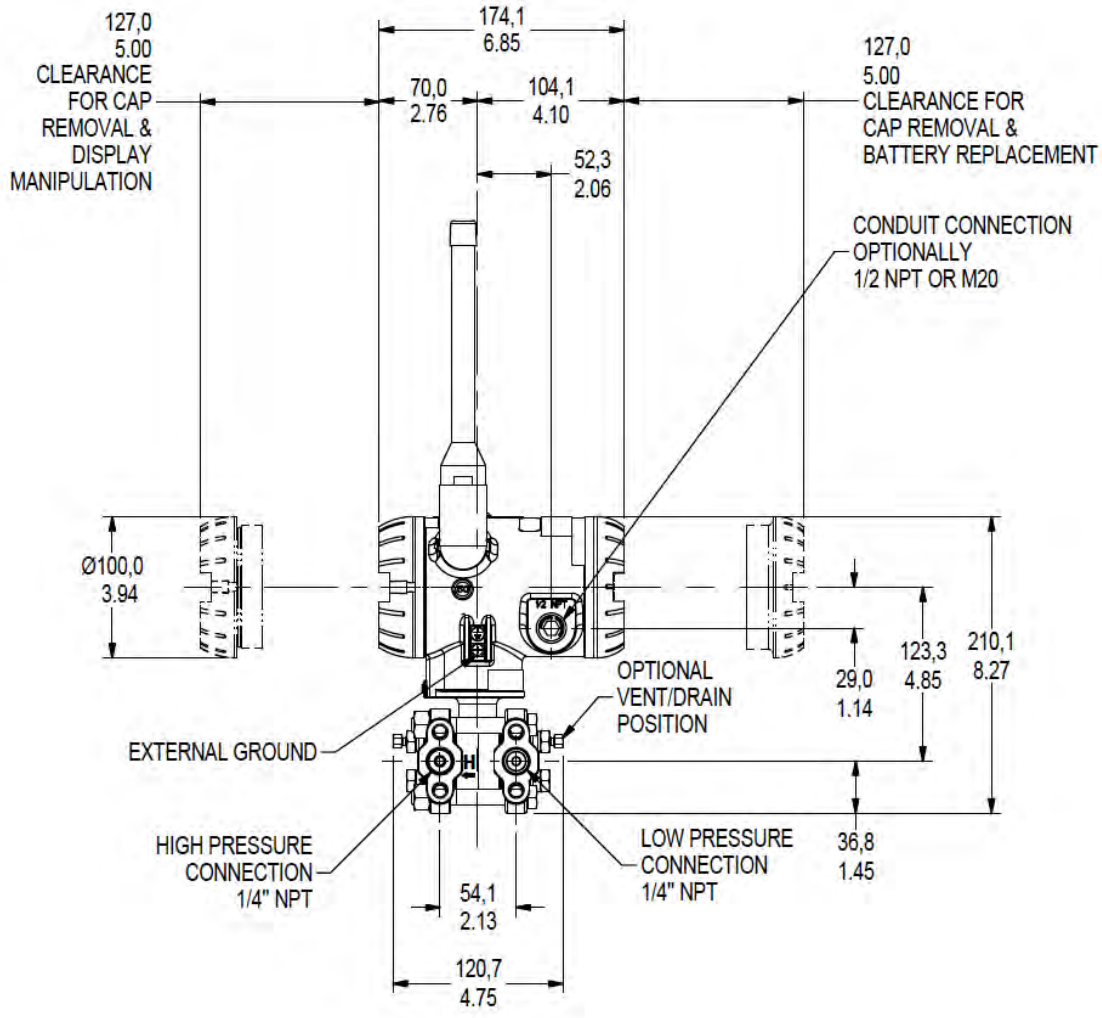


Figure 3 – Informational and dimensional drawing (4 dBi antenna shown)

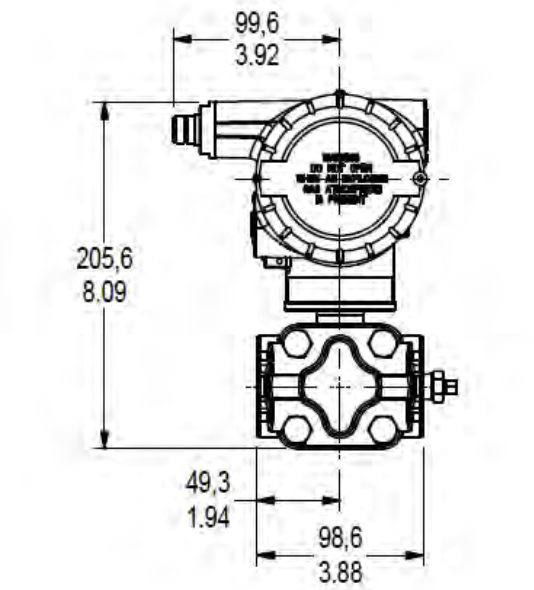


Figure 4 — Typical mounting dimensions for STDW810, STDW820, STDW830 and STDW870 (remote antenna adaptor shown, rear view)

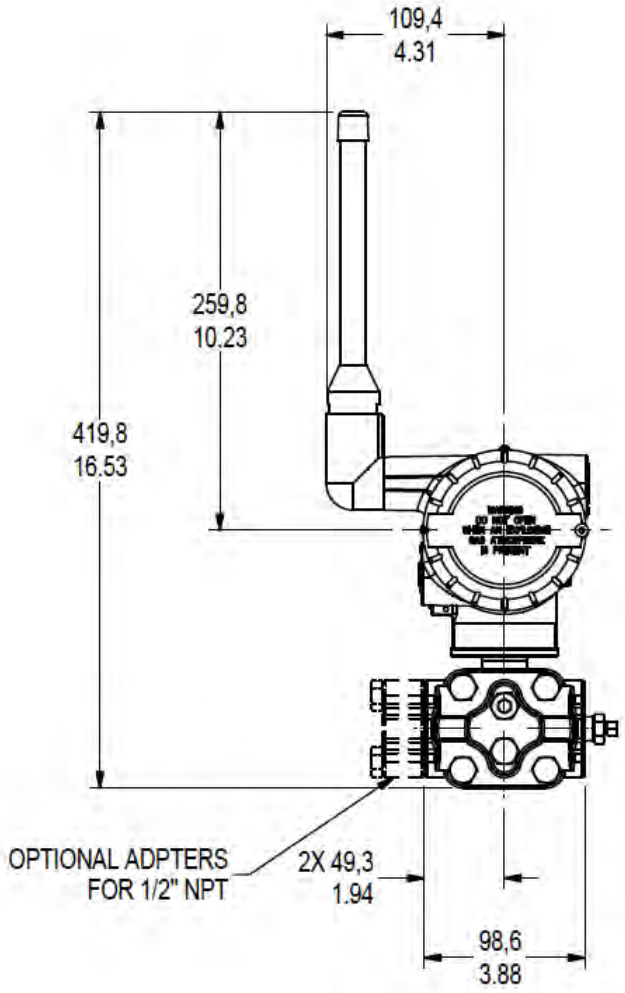


Figure 5 — Typical mounting dimensions for STDW810, STDW820, STDW830 and STDW870 (4 dBi antenna shown, rear view)

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	Product Applicability
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 AEx ia IIC T4 Ga Class I Zone 2 AEx ic IIC T4 Gc Ex ia IIC T4 Ga Ex ic IIC T4 Gc	See tables below	Pressure
	Non Incendive: Class I; Division 2; Groups A, B, C, D; Class II, Division 2, Groups E, F, G; Class III, Division 2, T6...T4 Ex nA [ia Ga] IIC T6...T4 Gc Class I, Zn 2, AEx nA [ia Ga] IIC T6...T4 Gc	See tables below	Pressure
	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...T4 Ex db [ia Ga] IIC T6...T4 Gb Ex tb [ia Da] IIIC T95...T125 Db Class I, Zn 1 AEx db [ia Ga] IIC T6...T4 Gb Class II, Zn 21, AEx tb [ia Da] IIIC T95...T125 Db	See tables below	Pressure
	Enclosure: Type 4X/ IP66/ IP67		
	Standards Used: CSA C22.2 No. 0-10 CSA C22.2 No.94.2-15 CSA C22.2 No.213-16 CAN/CSA C22.2 No.60079-1:16 CAN/CSA C22.2 No.60079-31:15 ANSI/UL 60079-1-2015 ANSI/UL 60079-31-2015 FM 3616 – Dec 2011 ANSI/UL 50E-2015	CSA C22.2 No.25-17 CAN/CSA C22.2 No.61010-1-12 CAN/CSA C22.2 No.60529:16 CAN/CSA C22.2 No.60079-11:14 ANSI/ISA 12.12.01-2015 ANSI/UL 60079-11-2014 FM 3600 – Dec 2011 ANSI/IEC 60529 – 2004 ANSI/UL 61010-1-2016	CSA C22.2 No.30-M1986 CAN/CSA C22.2 No.157-92 CAN/CSA C22.2 No.60079-0:15 CAN/CSA C22.2 No.60079-15:16 ANSI/UL 60079-0-2013 ANSI/UL 60079-15-2013 FM 3615 – Aug 2006 ANSI/UL 913-2015

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability
FM ApprovalsTM (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 ºC to +85 °C	Pressure
	Non Incendive: 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	Pressure
	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 -40 °C to +70 °C : T6	Pressure
	Enclosure: Type 4X/ IP66/ IP67		
	Standards Used: FM 3600:2018 ANSI/ISA 60079-0: 2013 ANSI/ ISA 60079-15: 2013 ANSI/ NEMA 250: 2008	FM 3610: 2018 FM 3810: 2018 ANSI/ ISA 60079-31: 2015	FM 3611: 2018 FM 3616: 2011 ANSI/ ISA 60079-11: 2014 ANSI/ ISA 60529: 2004

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability
ATEX	Intrinsically Safe: II 1 G Ex ia IIC T4 Ga II 3 G Ex ic IIC T4 Gc	See tables below	Pressure
	Flameproof / Dust Proof: II 2[1] G Ex db [ia Ga] IIC T6...T4 Gb II 2[1] D Ex tb [ia Da] IIIC T95C...T125C Db	See tables below	Pressure
	Non Incendive: II 3[1] G Ex ec [ia Ga] IIC T6...T4 Gc	See tables below	Pressure
	Enclosure: IP66/ IP67		
	Standards Used: EN 60079-0 : 2012 + A1 EN 60079-26 : 2006	EN 60079-1 : 2014 EN 60079-7 : 2015	EN 60079-11 : 2012 IEC 60079-31 : 2013

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
IECEx	**Intrinsically Safe:** Ex ia IIC T4 Ga Ex ic IIC T4 Gc	See tables below	Pressure
	Flameproof / Dust Proof: Ex db [ia Ga] IIC T6...T4 Gb Ex tb [ia Da] IIIC T95C...T125C Db	See tables below	Pressure
	Non Incendive: Ex ec [ia Ga] IIC T6..T4 Gc	See tables below	Pressure
	Enclosure: IP66 /IP67		
	Standards Used: IEC 60079-0 : 2011 IEC 60079-26 : 2006	IEC 60079-1 : 2014 IEC 60079-7 : 2015	IEC 60079-11 : 2011 IEC 60079-31 : 2013

***For Intrinsic Safety Installations**:*
The applicable temperature class, ambient temperature (Ta) and process temperature (Tp) range of the equipment when installed with type protection “Ex ia” is as follows:

Protection Type	Temperature Class
	T4
Ex ia	Ta = -40 to 80°C Tp = -40 to 125°C
Ex ic	Ta = -40 to 85°C Tp = -40 to 125°C

For Flameproof , Dustproof, increased safety and non incendive Installations:
The applicable temperature class, ambient temperature (Ta) and process temperature (Tp) range of the equipment when installed with type protection “Ex db”, “Ex ec”, “Ex nA” is as follows:

Protection Type	Temperature Class		
	T4	T5	T6
Ex db Ex ec Ex nA	Ta = -40 to 85°C Tp = -40 to 125°C	Ta = -40 to 85°C Tp = -40 to 100°C	Ta = -40 to 75°C Tp = -40 to 85°C

The applicable temperature class, ambient temperature (Ta) and process temperature (Tp) range of the equipment when installed with type protection “Ex tb” is as follows:

Protection Type	Temperature Class	
	T125C	T95C
Ex tb Ex nA Ex ec	Ta = -40 to 85°C Tp = -40 to 125°C	Ta = -40 to 85°C Tp = -40 to 100°C

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. These are 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.

Model Selection Guide

Model Selection Guides are subject to change and are inserted into the specifications as guidance only.

Model STDW800
Wireless Differential Pressure Transmitter

Model Selection Guide:
34-SW-16-32 Issue 4

Instructions: Make selections from all Tables Key through XIII using column below the proper arrow. Asterisk indicates availability. Letter (a) refer to restrictions highlighted in the restrictions table. Tables delimited with dashes.

Key	I	II	III	IV	V	VI	VII	VIII	IX
STDW_ _ _	- _ _ _ _ _ _ _ _	- _	- _	- _ _ _ _ _ _	- _ _ _ _	- _	- _ _ _ _	- _ _, _ _, _ _	- 00000

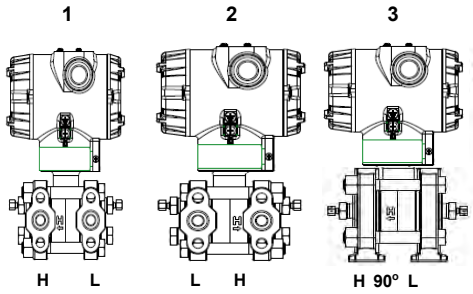
KEY NUMBER	URL	LRL	Max Span	Min Span	Units
Measurement Range	10 (25.0)	-10 (-25.0)	10 (25)	0.1 (0.25)	" H_2O (mbar)
	400/(1000)	-400/(-1000)	400/(1000)	1.0 (2.5)	" H_2O (mbar)
	100 (7.0)	-100 (-7.0)	100 (7.0)	1 (0.07)	psi (bar)
	3000 (210)	-100 (-7.0)	3000 (210)	30 (2.1)	psi (bar)

Selection	Availability			
STDW810	↓			
STDW820		↓		
STDW830			↓	
STDW870				↓

TABLE I	METER BODY SELECTIONS			
a. Process Wetted Heads & Diaphragm Materials	Process Head Material		Diaphragm Material	
	316 Stainless Steel		316L Stainless Steel	
			Hastelloy C-276	
b. Fill Fluid	Silicone Oil 200			
	Fluorinated Oil CTFE			
	NEOBEE® M-20			
c. Process Connection	None	None (1/4" NPTF female thread Std)		
	1/2" NPT female	Materials to Match Head & Head Bolt Materials Selections [1]		
d. Bolt/Nut Materials	Carbon Steel			
	316 SS			
	Grade 660 (NACE A286) Bolts & Nuts			
e. Vent/Drain Type/Location	Head Type	Vent Type	Location	Vent Material
	Single Ended	None	None	None
	Single Ended	Standard Vent	Side	Matches Head Material [1]
	Single Ended	Center Vent	Side	Stainless Steel Only
	Dual Ended	Standard Vent	End	Matches Head Material [1]
	Dual Ended	Center Vent	End	Stainless Steel Only
	Dual Ended	Std Vent/Plug	Side/End	Matches Head Material [1]
f. Gasket Material	Teflon® or PTFE (Glass Filled)			
g. Static Pressure	Standard Static Pressure - 4500 psig (310 bar) except STDW810: 50 psi (3.5 bar)			
	High Pressure 6000 psi (415 bar)			

Selection	Availability			
E _ _ _ _ _ _	*	*	*	*
F _ _ _ _ _ _		*	*	*
_ 1 _ _ _ _ _	*	*	*	*
_ 2 _ _ _ _ _		*	*	*
_ 4 _ _ _ _ _	*	*	*	*
_ _ A _ _ _ _	*	*	*	*
_ _ H _ _ _ _	*	*	*	*
_ _ _ C _ _ _	*	*	*	*
_ _ _ S _ _ _	*	*	*	*
_ _ _ K _ _ _	p	p	p	p
_ _ _ _ 1 _ _	*	*	*	*
_ _ _ _ 2 _ _	*	*	*	*
_ _ _ _ 3 _ _	*	*	*	*
_ _ _ _ 4 _ _	*	*	*	*
_ _ _ _ 5 _ _	*	*	*	*
_ _ _ _ 6 _ _	*	*	*	*
_ _ _ _ _ A _	*	*	*	*
_ _ _ _ _ _ S	*	*	*	*
_ _ _ _ _ _ H		k	k	k

[1] Except Carbon Steel Heads shall use 316SS Vent/Drain, Plugs & Adapters when required



STDW870
STDW830
STDW820
STDW810

TABLE II	Meter Body & Connection Orientation							
Head/Connect Orientation	Standard	High Side Left, Low Side Right[2] / Std Head Orientation	1	*	*	*	*
	Reversed	Low Side Left, High Side Right[2] / Std Head Orientation	2	*	*	*	*
	90/Standard	High Side Left, Low Side Right[2] / 90[0] Head Rotation	3	h	h	h	h

TABLE III	Agency Approvals (see data sheet for Approval Code Details)					
Approvals	No Approvals Required	0	*	*	*	*
	ATEX and IEC Ex Explosion proof, Intrinsically Safe, Non-incendive & Dustproof	A	*	*	*	*
	c CSA US Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof	B	*	*	*	*
	FM Intrinsically Safe, Non-incendive and Dustproof	H	*	*	*	*

TABLE IV	TRANSMITTER ELECTRONICS SELECTIONS							
a. Electronic Housing Material & Connection Type	Material	Connection	Paint Color					
	Epoxy Polyester Hybrid Coated Aluminum	1/2 NPT	Standard (Blue / Gray)	C _ _ _ _ _	*	*	*	*
	Epoxy Polyester Hybrid Coated Aluminum	M20	Standard (Blue / Gray)	D _ _ _ _ _	*	*	*	*
	316 Stainless Steel (Grade CF8M)	1/2 NPT	Standard (no paint)	M _ _ _ _ _	*	*	*	*
	316 Stainless Steel (Grade CF8M)	M20	Standard (no paint)	N _ _ _ _ _	*	*	*	*
b. Output/ Protocol	Wireless Protocol							
	ISA100 Wireless 2.0 compatible (equivalent OW R300 or newer)			_ A _ _ _ _	*	*	*	*
	ISA100 Wireless 1.0 compatible (equivalent to OW R2xx)			_ B _ _ _ _	*	*	*	*
c. Power	Power Options							
	Battery Holder Only - No Battery Included			_ _ 0 _ _ _	*	*	*	*
	Battery Power - Batteries included			_ _ B _ _ _	*	*	*	*
	24 VDC power			_ _ D _ _ _	*	*	*	*
d. Antennas	Antenna Options							
	Integral Right-angle, vertical 4 dBi			_ _ _ R _ _	*	*	*	*
	Remote Omnidirectional, 8 dBi			_ _ _ M _ _	*	*	*	*
	Remote Directional, 14 dBi			_ _ _ D _ _	*	*	*	*
	Remote Antenna Adapter only, Type N Connection			_ _ _ A _ _	*	*	*	*
e. Remote Antenna Cable	Remote Antenna Cable							
	None			_ _ _ _ 0 _	*	*	*	*
	Type N Remote Cable, 1.0 m (required for connection to transmitter)			_ _ _ _ 1 _	*	*	*	*
	Type N Remote Cable, 3.0 m (required for connection to transmitter)			_ _ _ _ 2 _	*	*	*	*
	Type N Remote Cable, 10.0 m (required for connection to transmitter)			_ _ _ _ 3 _	*	*	*	*
f. Surge Diverter and Cable	Lightning Surge Diverter and Remote Cable							
	None			_ _ _ _ _ 0	*	*	*	*
	Surge Diverter and Type N Cable (1.0 m)			_ _ _ _ _ 1	*	*	*	*
	Surge Diverter and Type N Cable (3.0 m)			_ _ _ _ _ 2	*	*	*	*
	Surge Diverter and Type N Cable (10.0 m)			_ _ _ _ _ 3	*	*	*	*

TABLE V	CONFIGURATION SELECTIONS						
a. Application Software	Diagnostics and Applications						
	Standard Diagnostics	1 _ _ _	*	*	*	*
	Standard Diagnostics plus Anti Alias Filter	3 _ _ _	*	*	*	*
b. Country	Destination Country						
	Canada	_ CA _	*	*	*	*
	European Union (RED compliant countries includes Australia)	_ EU _	*	*	*	*
	USA and Puerto Rico	_ US _	*	*	*	*
c. General Configuration	General Configuration						
	Factory Standard	_ _ _ S	*	*	*	*

[2] Left side/Right side as viewed from the customer connection perspective

[3] NAMUR Output Limits 3.8 - 20.5mAdc can be configured by the customer or select custom configuration Table Vc

TABLE VI	CALIBRATION & ACCURACY SELECTIONS			STDW870	STDW830	STDW820	STDW810
Accuracy and Calibration	Accuracy	Calibrated Range	Calibration Qty				
	Standard	Factory Std	Single Calibration	A	*	*	*	*

TABLE VII	ACCESSORY SELECTIONS						
	Bracket Type	Material					
a. Mounting Bracket	None	None	0 _ _ _	*	*	*	*
	Angle Bracket	Carbon Steel	1 _ _ _	*	*	*	*
	Angle Bracket	316 SS	3 _ _ _	*	*	*	*
	Flat Bracket	Carbon Steel	5 _ _ _	*	*	*	*
	Flat Bracket	316 SS	7 _ _ _	*	*	*	*
b. Customer Tag	Customer Tag Type						
	No customer tag		_ 0 _ _	*	*	*	*
	One Wired Stainless Steel Tag (Up to 4 lines 26 char/line)		_ 1 _ _	*	*	*	*
	Two Wired Stainless Steel Tag (Up to 4 lines 26 char/line)		_ 2 _ _	*	*	*	*
c. Unassembled Conduit Plugs & Adapters	Unassembled Conduit Plugs & Adapters						
	No Conduit Plugs or Adapters Required		_ _ A0	*	*	*	*
	1/2 NPT Male to 3/4 NPT Female 316 SS Certified Conduit Adapter		_ _ A2	n	n	n	n
	1/2 NPT 316 SS Certified Conduit Plug		_ _ A6	n	n	n	n
	M20 316 SS Certified Conduit Plug		_ _ A7	m	m	m	m
	Minifast® 4 pin (1/2 NPT) (not suitable for X-Proof applications)		_ _ A8	n	n	n	n
	Minifast® 4 pin (M20) (not suitable for X-Proof applications)		_ _ A9	m	m	m	m

TABLE VIII	OTHER Certifications & Options: (String in sequence comma delimited (XX, XX, XX,....)						
Certifications & Warranty	None - No additional options		00	*	*	*	*
	NACE MR0175; MR0103; ISO15156 (FC33338) Process wetted parts only		FG	*	*	*	*
	NACE MR0175; MR0103; ISO15156 (FC33339) Process wetted and non-wetted parts		F7	c	c	c	c
	EN10204 Type 3.1 Material Traceability (FC33341)		FX	*	*	*	*
	Certificate of Conformance (F3391)		F3	*	*	*	*
	Calibration Test Report & Certificate of Conformance (F3399)		F1	*	*	*	*
	Certificate of Origin (F0195)		F5	*	*	*	*
	Over-Pressure Leak Test Certificate (1.5X MAWP) (F3392)		TP	*	*	*	*
	Cert Clean for O_2 or CL_2 service per ASTM G93		OX	e	e	e	e
	PMI Certification[1]		PM	*	*	*	
	Extended Warranty Additional 1 year		01	*	*	*	*
	Extended Warranty Additional 2 years		02	*	*	*	*
	Extended Warranty Additional 3 years		03	*	*	*	*
	Extended Warranty Additional 4 years		04	*	*	*	*
	Extended Warranty Additional 15 years		15	*	*	*	*

b: FG, F7 | b: F3, F1 | b: 01, 02, 03, 04, 15

TABLE IX	Manufacturing Specials					
Factory	Factory Identification		00000	*	*	*	*

MODEL RESTRICTIONS

Restriction Letter	Available Only with		Not Available with	
	Table	Selection(s)	Table	Selection(s)
k			Ic	_ _ H _ _ _
			Id	_ _ S _ _ _
			Ie	1, 2, 3, 5, 6 _ _
			III	B- No CRN number available
c	1d	_ _ _ K _ _ _		
e	Ib	_ 2 _ _ _ _ _		
h			Ie	_ _ _ _ 4, 5, 6 _ _
			VIIa	1, 3,5,7 _ _ _
m	IV a	D, N _ _		
n	IV a	C, M _ _		
p			III	B- No CRN number available
b	Select only one option from this group			

[1]The PM option is available on all Smartline Wireless Pressure Transmitter process wetted parts such as process heads, flanges, bushings and vent plugs except plated carbon steel process heads and flanges. PM option information is also available on diaphragms except Gold plated and STGW and STAW in-line construction pressure transmitters.

FIELD INSTALLABLE REPLACEMENT PARTS

Description	Kit Number
1/2 NPT cocket plug (ZN plated CS)	50021832-501
1/2 NPT certified conduit plug (SS)	50021832-502
M20 conduit plug (ZN plated CS)	50000547-502
M20 certified conduit plug (SS)	50000547-501
Lightning surge diverter (order cable separately)	50018279-590
IS battery pack	50047517-501
24 VDC external power module	50136118-501
Right-angle elbow assembly for 4dBi antenna, aluminum with gray, pure polyester paint	50030973-503
Right-angle elbow assembly for 4dBi antenna, aluminum with gray, epoxy-polyester paint	50030973-504
Right-angle elbow assembly for 4dBi antenna, stainless steel	50030973-505
Remote omnidirectional antenna, 8 dBi	50018414-501
Remote directional antenna, 14 dBi	50018415-501
Remote antenna adapter, Type N connection	50028364-501
Remote cable for antenna or accessories, Type N (1.0m)	50018278-501
Remote cable for antenna or accessories, Type N (3.0m)	50018278-503
Remote cable for antenna or accessories, Type N (10.0m)	50018278-510
Lithium thionyl chloride batteries (Qty 2)	50026010-501
Lithium thionyl chloride batteries (Qty 4)	50026010-502
Lithium thionyl chloride batteries (Qty 10)	50026010-503

PRODUCT MANUALS

Description	Part Number
SmartLine Wireless Transmitter User's Manual	34-SW-25-01

All product documentation is available at www.honeywellprocess.com.

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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