

SmartLine Wireless Flange Mounted Pressure Transmitter Specification

34-SW-03-04, August 2019

Series 800 model:

STFW828 0 to 400 in H₂O 0 to 1,000 mbar

Series 700 Model:

STFW724 0 to 400 in H₂O 0 to 1,000 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 porfotlio. 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, 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 and operational in minutes, quickly providing information back to your system.



Figure 1 — SmartLine Wireless Flange Mounted Pressure Transmitter

The 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 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 1/2 second publication rate
- Built-in additional noise reduction
- More powerful 4 dBi integral antenna
- Good battery life performance even at ¹/₂ 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 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 STFW800 and STFW700 series transmitters are high performance flange mounted level transmitters featuring piezoresistive sensor technology. These transmitters may be directly mounted onto a tank flange and are offered with a variety of tank connections including various flush and extended diaphragm configurations. STFW800 offers highest accuracy and stability while the STFW700 offers the best performance value. Both are applicable over a wide range of level applications.

Span & Range Limits:

Model	URL	LRL Max Span		Min Span
	"H₂O	"H₂O (mbar)	"H₂O	"H₂O
	(mbar)		(mbar)	(mbar)
STFW828	400	-400	400	4.0
	(1000)	(-1000)	(1000)	(10.0)
STFW724	400	-400	400	4.0
	(1000)	(-1000)	(1000)	(10.0)

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 HARTTM 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.

Parameter	Description				
Wireless	2,400 to 2,483.5 MHz (2.4 GHz) Industrial, Scientific and Medical (ISM) band				
Communication	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	NA Selection –100 mW (20.0 dBm) maximum EIRP including antenna for USA and Canadian				
Power	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 (FDAP) when using 4 dBi Integral antenna with a clear line of sight*				

Wireless Specifications

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

Specifications

		erence dition zero atic)	on o		Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F
Ambient Temperature ^{1,4}	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 ²	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	0 100	0 to	100	0 to	100
Minimum Pressure mmHg absolute in H ₂ O absolute Atmospheric			25 13	2 (short term ³) 1 (short term ³)				
Vibration	Maxin	num of 4o	g over 15 to 2	00Hz.				
Shock	Maxin	num of 40)g.					
non-rechargea		nmercially available, non-proprietary 3.6V Lithium thionyl chloride (LiSOCl2) batteries, -rechargeable, size D. ery pack-only option is available.						
			st of the manufacturer models:					
Power	-	 Xeno Energy XL-205F Eagle Picher PT-2300H 						
FOWEI	3. Tadiran TL-5930/s							
		24 VDC power option.						
		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				ty			

¹ NEOBEE M-20 minimum temperature is -15°C (5°F). NEOBEE is a registered trademark of Stepan Company.

 2 For CTFE fill fluid, the maximum temperature rating is 150°C (300°F).

³ Short term equals 2 hours at 70°C (158°F)

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.

Maximum Allowable Working Pressure (MAWP)^{6,7}

(STWX800 and STWX700 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)

STFW828	Flange Material	Ambient Temperature -29 to 38°C [-20 to 100°F]	Max Meterbody Temperature 125°C [257°F]	Process Interface Temperature 175°C [350°F]
ANSI Class 150	304 S.S.	275 [19.0]	218 [15.0]	198 [13.7]
psi [bar]	316 S.S.	275 [19.0]	225 [15.5]	205 [14.1]
ANSI Class 300	304 S.S.	720 [49.6]	570 [39.3]	518 [35.7]
psi [bar]	316 S.S.	720 [49.6]	590 [40.7]	538 [37.1]
DN PN40	304 S.S.	534 [36.8] ⁵	419 [28.9]	385 [26.5]
psi [bar]	316 S.S.	534 [36.8] ⁵	434 [29.9]	399 [27.5]

STFW724	Flange Material	Ambient Temperature -29 to 38°C [-20 to 100°F]	Max Meterbody Temperature 125°C [257°F]	Process Interface Temperature 175°C [350°F]
ANSI Class 150	304 S.S.	275 [19.0]	218 [15.0]	198 [13.7]
psi [bar]	316 S.S.	275 [19.0]	225 [15.5]	205 [14.1]
ANSI Class 300	304 S.S.	720 [49.6]	570 [39.3]	518 [35.7]
psi [bar]	316 S.S.	720 [49.6]	590 [40.7]	538 [37.1]
DN PN40	304 S.S.	534 [36.8] ⁵	419 [28.9]	385 [26.5]
psi [bar]	316 S.S.	534 [36.8] ⁵	434 [29.9]	399 [27.5]

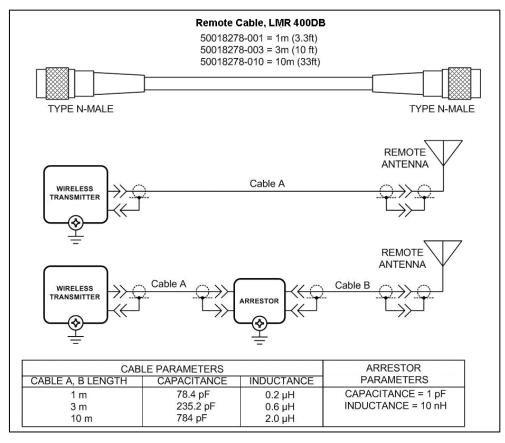
⁵ Ambient Temperature for DN PN40 is -10 to 50°C [14 to 122 F]

⁶ MAWP applies for temperature range -40 to 125°C. However, Static Pressure Limit is de-rated to 3,000 psi from -26°C to -40°C.

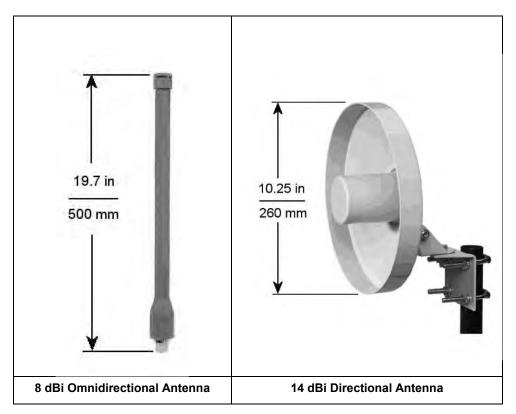
Use of graphite o-rings de-rates transmitter to 3,625 psi. Use of adaptor with graphite o-rings de-rates transmitter to 3,000 psi.

⁷ Consult factory for MAWP of ST 800 and ST 700 transmitters with CSA approval.

Remote Antenna Cables



Remote Antennas



Performance Specifications

Performance under Rated Conditions* - Model STFW828 (400 in H2O)

Parameter	Description
Upper Range Limit in H ₂ O	400 (39.2°F/4°C is standard reference temperature for in H ₂ O range.)
mbar	1,000
Lower Range Limit in H ₂ O	-400 (39.2°F/4°C is standard reference temperature for in H ₂ O range.)
mbar	-1,000
Minimum Span in H ₂ O	4 10
mbar (Span can be between -400 to +400	
inH ₂ 0 / -1000 to +1000 mbar)	
Maximum Span in H ₂ O	400
mbar	1000
(400 inH ₂ 0 / 1000mbar (span can be between -400 to +400 inH ₂ 0)	
Zero Elevation and Suppression	No limit except min. span within ±100% URL. Specifications valid from -5 to +100% URL.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability)	±0.075% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (25 in H ₂ O), accuracy equals:
 Accuracy includes residual error after averaging successive readings. 	$\pm \left[0.025 + 0.05 \left(\frac{25 \text{ inH}_2 \text{ O}}{\text{span inH}_2 \text{ O}} \right) \right] \text{ or } \pm \left[0.025 + 0.05 \left(\frac{62.5 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)	$ \begin{array}{l} \pm 0.20\% \text{ of span.} \\ \text{For URV below reference point (50 in H_2O), effect equals:} \\ \pm 0.20 \left(\frac{50 \text{ inH}_2O}{\text{span inH}_2O} \right) \text{ or } \pm 0.20 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \text{ in \% of span} \end{array} $
Combined Zero and Span Temperature Effect per 28°C (50°F)	$ \begin{array}{l} \pm 0.375\% \text{ of span.} \\ \text{For URV below reference point (50 in H2O), effect equals:} \\ \pm \left\lfloor 0.175 + 0.20 \left(\frac{50 \text{ inH }_2O}{\text{span inH }_2O} \right) \right\rfloor \text{ or } \pm \left\lfloor 0.175 + 0.20 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right\rfloor \text{ in \% of span} \end{array} $
Zero Static Pressure Effect per 300 psi (20 bar)	±0.1625% of span. For URV below reference point (50 in H ₂ O), effect equals:
	$\pm \left\lfloor 0.0125 + 0.15 \left(\frac{50 \text{ inH }_2\text{O}}{\text{span inH }_2\text{O}} \right) \right\rfloor \text{ or } \pm \left\lfloor 0.0125 + 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right\rfloor \text{ in \% of span}$
Combined Zero and Span Static Pressure Effect per 300 psi (20 bar)	±0.30% of span. For URV below reference point (50 in H ₂ O), effect equals:
	$\pm \left\lfloor 0.15 + 0.15 \left(\frac{50 \text{ inH }_2\text{O}}{\text{span inH }_2\text{O}} \right) \right\rfloor \text{ or } \pm \left\lfloor 0.15 + 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right\rfloor \text{ in \% of span}$

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

Performance Under Rated Conditions* - Model STFW724 (0 to 400 inH2O/1,000 mbar)

Parameter		Description		
Upper Range Limit	inH ₂ O mbar	400 (39.2°F/4°C is standard reference temperature for inH2O range.) 1,000		
Minimum Span	inH ₂ O mbar	4 10		
Zero El evation and Su	ppression	No limit except minimum span within $\pm 100\%$ URL. Specifications valid from -100% to $\pm 100\%$ URL.		
Accuracy (Reference – combined effects of line hysteresis, and repeated	arity,	±0.075% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (25 inH ₂ O), accuracy equals:		
 Accuracy includes res after averaging succe readings. 		$\pm \left\lfloor 0.025 + 0.05 \left(\frac{25 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right\rfloor \text{ or } \pm \left\lfloor 0.025 + 0.05 \left(\frac{62.5 \text{ mbar}}{\text{span mbar}} \right) \right\rfloor \text{ in \% of span}$		
Zero Temperature Effe 28°C (50°F)	ect p er	$ \begin{array}{l} \pm 0.30\% \text{ of span.} \\ \text{For span below reference point (50 inH_2O), effect equals:} \\ \pm 0.30 \left(\frac{50 \text{ inH}_2O}{\text{span inH}_2O} \right) \text{ or } \pm 0.30 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \text{ in \% of span} \end{array} $		
Combined Zero and Span Temperature Effect per 28°C (50°F)		$ \begin{array}{c} \pm 0.475\% \text{ of span.} \\ \text{For span below reference point (50 inH_2O), effect equals:} \\ \pm \left\lfloor 0.225 + 0.25 \left(\frac{50 \text{ inH}_2O}{\text{span inH}_2O} \right) \right\rfloor \text{ or } \pm \left\lfloor 0.225 + 0.25 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right\rfloor \text{ in \% of span} \end{array} $		
Zero Static Pressure Effect per 300 psi (20 bar)		$ \begin{array}{c} \pm 0.2125\% \text{ of span.} \\ \text{For URV below reference point (50 inH_2O), effect equals:} \\ \pm \left\lfloor 0.0125 + 0.20 \left(\frac{50 \text{ inH}_2O}{\text{span inH}_2O} \right) \right\rfloor \text{ or } \pm \left\lfloor 0.0125 + 0.20 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right\rfloor \text{ in \% of span} \end{array} $		
Combined Zero and S Static Pressure Effect psi (20 bar)		$ \begin{array}{c} \pm 0.40\% \text{ of span.} \\ \text{For URV below reference point (50 inH_2O), effect equals:} \\ \pm \left\lfloor 0.20 + 0.20 \left(\frac{50 \text{ inH}_2O}{\text{span inH}_2O} \right) \right\rfloor \text{ or } \pm \left\lfloor 0.20 + 0.20 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right\rfloor \text{ in }\% \text{ of span} \end{array} $		

* 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 \pm 20%, Impulse Breakdown Voltage = 1,000 V \pm 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 1 meter).		
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	Process Head: 1/4-inch NPT; 1/2-inch NPT with adapter. Process heads meet DIN 19213 requirements.		
	Flange: 2, 3 or 4-inch Class 150 or 300 ANSI; DN50-PN40, DN80-PN40 or DN100-PN40 DIN flange.		
	Extended Diaphragm: 2, 4 or 6 inches (50, 101, 152 mm) long.		
	2 or 3-inch, Class 150 ANSI flange.		
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 and Figure 4.		
Net Weight	23 to 36 lbs (10.5 kg to 16.4 kg) depending on flange size 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
Barrie r Diaphragm Material	316L SS and Hastelloy [®] C-276 ²
Process Head Material	316 SS ³
Vent/Drain Valves & Plugs ¹	316 SS ³
Head Gaskets	Glass-filled PTFE standard. (STFW828 optionally available with Viton®)
Meter Bod y Bol tin g	Carbon Steel (zinc plated) standard. Options include 316 SS and NACE A286 SS bolts
Fill Flui d	Silicone DC 200 oil, NEOBEE M-20, or CTFE (chlorotrifluoroethylene)
Mounting Flange ⁴	
Flush	316L SS and Hastelloy C-276 ² .
Extended	316L SS

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.

⁴ Mounting flange is process wetted.

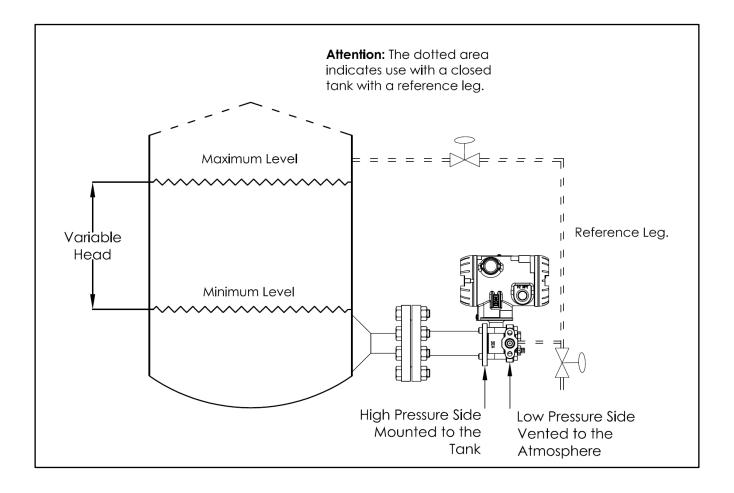


Figure 2 — Typical mounting arrangement for flange mounted liquid level transmitter (antenna omitted)

Mounting and Dimensions

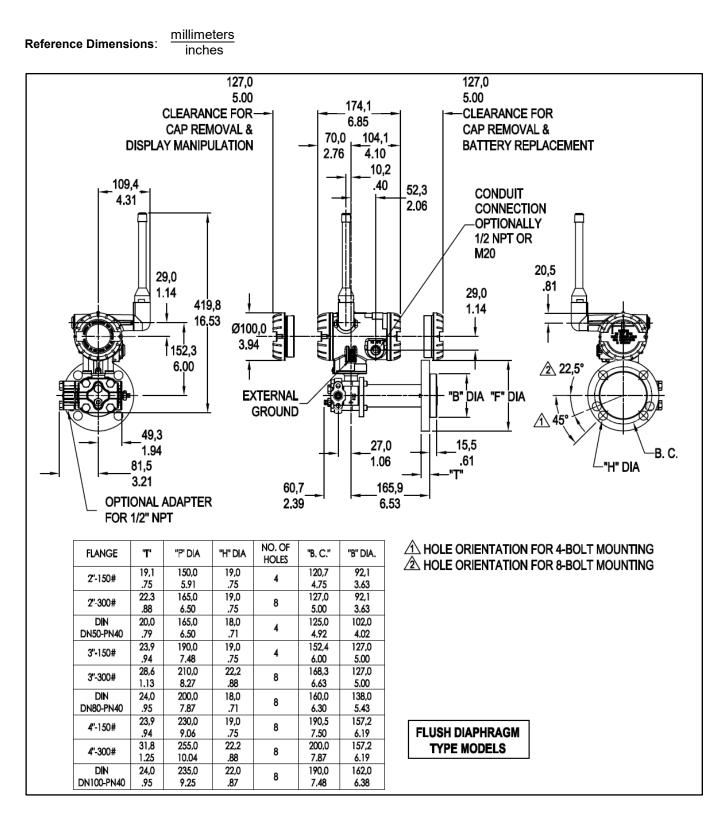


Figure 3 – Typical mounting dimensions for flush diaphragm type models STFW828 and STFW724

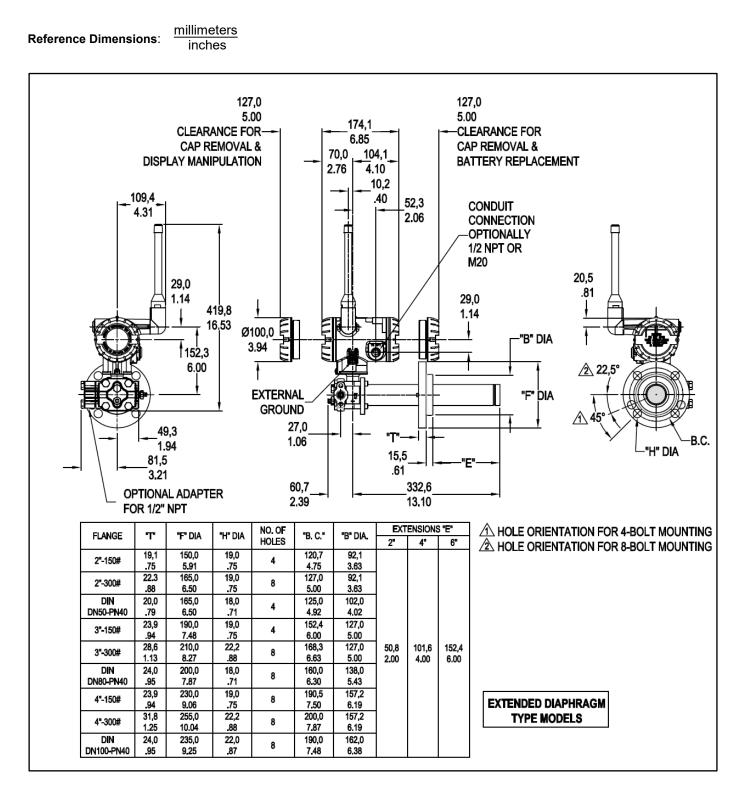


Figure 4 — Typical mounting dimensions for extended diaphragm type models STFW828 and STFW724

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		Product
			Temperat	ture	Applicability
	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			below	Pressure
	Non Incendive: Class I; Division 2; Groups A, B, Class II, Division 2, Groups E, F, Class III, Division 2, T6T4 Ex nA [ia Ga] IIC T6T4 Gc Class I, Zn 2, AEx nA [ia Ga] IIC	See tables below		Pressure	
CSA (USA and Canada)	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; T6T4 Ex db [ia Ga] IIC T6T4 Gb Ex tb [ia Da] IIIC T95T125 Db Class I, Zn 1 AEx db [ia Ga] IIC T6T4 Gb Class II, Zn 21, AEx tb [ia Da] IIIC T95T125 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.60079-11:1 ANSI/ISA 12.12.01-2015 ANSI/UL 60079-11-2014 FM 3600 – Dec 2011 ANSI/IEC 60529 – 2004 ANSI/UL 61010-1-2016		CAN/CS CAN/CS CAN/CS ANSI/UI ANSI/UI FM 361	2.2 No.30-M1986 GA C22.2 No.157-92 GA C22.2 No.60079-0:15 GA C22.2 No.60079-15:16 L 60079-0-2013 L 60079-15-2013 5 – Aug 2006 L 913-2015

AGENCY	TYPE OF PROTECTION		Ambient Temperature		Product Applicability
	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		Pressure
	Non Incendive: NI-AIS Class I; DIV 2; Groups ABCD; T5T6		-40 °C to +85 °C : T5 -40 °C to +70 °C : T6		Pressure
FM	Class I, Zone 2[0] AEx nA [ia Ga] IIC Gc; T5T6		-40 0 10 170	0.10	
ApprovalsTM (USA)	Dust Proof: DIP-AIS Class II, III DIV 1; Groups EFG; T5T6 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 6007		FM 3611: 2018 FM 3616: 2011 ANSI/ ISA 60079-11: 2014 ANSI/ ISA 60529: 2004	

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability
	Intrinsically Safe: II 1 G Ex ia IIC T4 Ga II 3 G Ex ic IIC T4 Gc	See tables below	Pressure
ATEV	Flameproof / Dust Proof: II 2[1] G Ex db [ia Ga] IIC T6T4 Gb II 2[1] D Ex tb [ia Da] IIIC T95CT125C Db	See tables below	Pressure
ATEX	Non Incendive: II 3[1] G Ex ec [ia Ga] IIC T6T4 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*
	Intrinsically Safe: Ex ia IIC T4 Ga Ex ic IIC T4 Gc	See tables below	Pressure
	Flameproof / Dust Proof: Ex db [ia Ga] IIC T6T4 Gb Ex tb [ia Da] IIIC T95CT125C Db	See tables below	Pressure
IECEx	Non Incendive: Ex ec [ia Ga] IIC T6T4 Gc	See tables below	Pressure
	Enclosure: IP66 /IP67	1	1
	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	
Exic	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	Temperature Class					
	T4	T5	Т6				
Ex db	Ta = -40 to 85°C	Ta = -40 to 85°C	Ta = -40 to 75°C				
Ex ec	Tp = -40 to 125°C	Tp = -40 to 100°C	Tp = -40 to 85°C				
Ex nA							

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	Ta = -40 to 85°C	Ta = -40 to 85°C		
Ex nA	Tp = -40 to 125°C	Tp = -40 to 100°C		
Ex ec				

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.

Model Selection Guide for STFW800

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

Model STFW800 **Flange Mounted Liquid Level** Wireless Transmitter

Model Selection Guide 34-SW-16-33 Issue 4

STFW

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection from each Table (I, II and IX) using the column below the proper arrow. •
- A(•) denotes unrestricted availability. Aletter denotes restricted availability.

 Re 	strictions follo	w Table IX.						
	Кеу	I.	Ш	ш	IV	v	VI	VII

KEY NUMBER	URL	LRL	Max Span	Min Span	Units	Selection	Availability
Measurement							
Range Std						STFW828	\downarrow
Accuracy	400 (1000)	-400 (-1000)	400 (1000)	4 (10)	" H ₂ O (mbar)		•

VIII

IX

00000

TABLEI	Materials of Construction	Design	Ref. Head	Vent Drain Valve on Ref. Head ²	Barrier Diaphrm. (wetted)	Diaphrm. Plate (wetted)	Extension (wetted)	Selection	Availability
	a. Process Wetted Heads & Diaphragm	Flush	316 SS ⁵	316 SS	316L SS Hast C ³ Hast C ³	316L SS 316L SS Hast C ³	N/A	E X F	• • •
	Materials	Extended	316 SS ⁵	316 SS	316L SS Hast C ³	316L SS	316L SS	R S	•
	b. Fill Fluid (Meter Body & Flange)			Silicone Fluorinateo	Oil CTFE			_1 _2	•
		NEOBEE® M-20						_4 Selection	• Availability
	c. Process Connection		PT	_	Flange High Pressure Side Low Pressure Side		A	•	
Meter Body & Flange Design		· · ·					ssure Side ssure Side	H K	•
		Carbon Steel Bolts							•
	d. Bolts for Process Heads	316 SS Bolts							•
		A286 SS (NACE) Bolts						N	•
		Ref. Head Type	Vent Typ	e Loca	tion	Vent Ma	terial	Selection	Availability
		Single Ended	None	None	No			1_	•
	e. Vent/Drain	Single Ended	Std	Side		tches Head N		2_	•
	Type/Location	Single Ended	Ctr Vent	Side		inless Steel		3_	•
		Dual Ended	Std	End		tches Head N		4	•
		Dual Ended Dual Ended	Ctr Vent Vent/Pluc	End Side/En		Stainless Steel Only Matches Head Material ¹¹		⁵	•
	f. Gasket			on [®] or PTFE				A	•
	Material			[®] or Fluoroca				В	•

¹ Carbon Steel heads are zinc-plated and not recommended for water service due to hydrogen migration. For that service, use the 316 stainless steel Wetted Reference Head.

Vent/Drains are Teflon or PTFE coated for lubricity.

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

⁶ Supplied as indicated or as Grade CW12MW, the casting equivalent of Hastellov® C-276

Supplied as indicated or as Grade M30C, the casting equivalent of Monel 400[®]

¹⁰ Monel 400[®] or UNS N04400 or UNS N04405

¹¹ Except Carbon Steel Heads shall use 316SS Vent/Drain, Plugs & Adapters when required

Hastelloy[®] C-276 or UNS N10276 Monel 400[®] or UNS N04400

						Availability ↓
TABLE II			Flange Material	Threaded Nut Ring Material	Selection	STFW828
Flange Assembly	a. Flange	3" ANSI Class 150 3" ANSI Class 300 DN80-PN40 DIN 4" ANSI Class 150 4" ANSI Class 300 DN100-PN40 DIN 2" ANSI Class 150 2" ANSI Class 300 DN50-PN40 DIN	304 SS (non-wetted)	304 SS (non-wetted)	A B C E F Q V	•
	(ANSI Flanges have 125-500 AARH surface Finish)	3" ANSI Class 150 3" ANSI Class 300 DN80-PN40 DIN 4" ANSI Class 150 4" ANSI Class 300 DN100-PN40 DIN 2" ANSI Class 150 2" ANSI Class 300 DN50-PN40 DIN	316 SS (non-wetted)	304 SS (non-wetted)	H J K M N W X Z	• • • • •
	b. Gasket Ring (wetted)			316L SS Hastelloy [®] C ³ Monel 400 ^{® 4}		s s q
		Extended Design		316L SS	_5_	v
		Flush			F	w
	c. Extension (wetted)	Diameter 1.87 Inches (for 2", 3" or 4 " spud) ¹³		Length 2 inches 4 inches 6 inches	Selection C D E	Availability v v v

³ Hastelloy[®] C-276 or UNS N10276
 ⁴ Monel 400[®] or UNS N04400
 ¹³ For part numbers and pricing information on Tank Spuds refer to page ST-91 (Supplementary Accessories & Kits).

TABLE III	Agency Approvals (see data sheet for Approval Code Details)	Selection	Availability
	No Approvals Required	0	•
Approvals	ATEX and IEC Ex Explosion proof, Intrinsically Safe, Non-incendive & Dustproof	А	•
Approvais	c CSA US Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof	В	•
	FM Intrinsically Safe, Non-incendive and Dustproof	н	•

TABLE IV	TRANSMITTER ELE	CTRONICS SELECT	FIONS		
	Material	Connection	Paint Color	Selection	Availability
a. Electronic	Epoxy Polyester Hybrid Coated Aluminum	1/2 NPT	Standard (Blue / Gray)	C	•
Housing Material &	Epoxy Polyester Hybrid Coated Aluminum	M20	Standard (Blue / Gray)	D	•
Connection Type	316 Stainless Steel (Grade CF8M)	1/2 NPT	Standard (no paint)	M	•
	316 Stainless Steel (Grade CF8M)	M20	Standard (no paint)	N	•
	Wirele	ss Protocol			
b. Output Protocol	ISA100 Wireless 2.0 compatible (equivalent	OW R300 or newer)	_A	•
	ISA100 Wireless 1.0 compatible (equivalent	to OW R2xx)		_B	•
	Powe	er Options			
c. Power	Battery Holder Only - No Battery Included			0	•
c.r ower	Battery Power - Batteries included	B	•		
	24 VDC power			D	•
		na Options			
	Integral Right-angle, vertical 4 dBi			R	•
d. Antennas	Remote Omnidirectional, 8 dBi			M	•
	Remote Directional, 14 dBi			D	•
	Remote Antenna Adapter only, Type N Conne	ection		A	•
	Remote	Antenna Cable			
	None			0_	•
e. Remote Antenna Cable	Type N Remote Cable, 1.0 m (required for co	nnection to transm	itter)	1_	•
Cable	Type N Remote Cable, 3.0 m (required for co		,	2	•
	Type N Remote Cable, 10.0 m (required for c		'	3	
	Lightning Surge Div		/		-
	None			0	•
f. Surge Diverter	Surge Diverter and Type N Cable (1.0 m)			1	•
and Cable	Surge Diverter and Type N Cable (3.0 m)			2	•
	Surge Diverter and Type N Cable (10.0 m)			3	•

			Availability ↓
TABLE V	CONFIGURATION SELECTIONS	Selection	STFW828
	Diagnostics and Applications	Selection	5170020
a. Application Software	Standard Diagnostics	1	•
Soltware	Standard Diagnostics plus Anti-Alias Filter	3	•
	Destination Country		
	Canada	_CA_	•
b. Country	European Union (RED compliant countries includes Australia)	_ EU _	•
	USA and Puerto Rico	_US_	•
c. General	General Configuration		
Configuration	Factory Standard	S	•

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

TABLE VI	C	Selection	Availability		
Accuracy and	Accuracy	Calibrated Range	Calibration Qty	Selection	Availability
Calibration	Standard	FactoryStd	Single Calibration	А	•

TABLE VII	ACCESSORY SELECTIONS	Selection	Availability
a. Mounting Bracket	None (not required with flange mount unit)	0	•
b. Customer Tag	No customer tag One Wired Stainless Steel Tag (Up to 4 lines 26 char/line) Two Wired Stainless Steel Tag (Up to 4 lines 26 char/line)	_0 _1 _2	•
c. Unassembled Conduit Plugs & Adapters	No Conduit Plugs or Adapters Required 1/2 NPT Male to 3/4 NPT Female 316 SS Certified Conduit Adapter 1/2 NPT 316 SS Certified Conduit Plug M20 316 SS Certified Conduit Plug Minifast [®] 4 pin (1/2 NPT) Minifast [®] 4 pin (M20)	A0 A2 A6 A7 A8 A9	• • • •

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

TABLE IX	Manufacturing Specials	Selection	Availability
Factory	Factory Identification	00000	•

MODEL RESTRICTIONS

Restriction Letter	Availab	le Only with	Not Available with				
Restriction Letter	Table	Selection(s)	Table	Selection(s)			
С	ld	N					
е	lb	_2					
m	IVa	D, N					
n	IVa	C, M					
q	la	G					
S	la	E, X, F					
v	la	R,S					
			la	R,S			
w			llb	_5_			
b		Select only on	e option from this group				

¹The 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.

Model Selection Guide for STFW700

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

Model STFW700 Flange Mounted Liquid Level Wireless Transmitter

Model Selection Guide 34-SW-16-03 Issue 4

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

Key Number	I	Ш	ш	IV		v	VI		VII		VIII		IX
STFW7	·	·	_	·	-			-		-		-	00000

KEY NUMBER	URL	LRL	Max Span	Min Span	Units	Selection	Availability
Measurement							
Range Std	400 (1000)	-400 (-1000)	400 (1000)	4 (10)	"H₂O (mbar)	STFW724	*
Accuracy							

TABLEI	Materials of Construction	Design	Ref. Head	Vent Drain Valve on Ref. Head ²	Barrier Diaphrm. (wetted)	Diaphrm. Plate (wetted)	Extension (wetted)		
	a. Process Wetted Heads & Diaphragm	Flush	316 SS ⁵	316 SS	316L SS Hast C ³ Hast C ³	316L SS 316L SS Hast C ³	N/A	E X F	•
	Materials	Extended	316 SS⁵	316 SS	316L SS Hast C ³	316L SS	316L SS	R S	•
	b. Fill Fluid (Meter Body & Flange)		_1 _2 4	•					
	c. Process Connection	1/2 NPT A	1/4	nce Head NPT aterial match	es head	Flar High Press High Press	sure Side	A H	•
Meter Body & Flange Design	d. Bolts for Process Heads	Carbon Steel Bolts 316 SS Bolts A286 SS (NACE) Bolts						C S N	•
		Ref. Head Type	•	vpe Locat	ion	Vent Mate	rial		
	e. Vent/Drain Type/Location	Single Ended Single Ended Single Ended	None Std Ctr	Side Side	Mato	hes Head Mate	y	1 2 3	• •
		Dual Ended Dual Ended Dual Ended	Std Cntr Vent/Pl		Stair	hes Head Mate nless Steel Only hes Head Mate	y	4_ 5_ 6_	•
	f. Gasket Material		-	Feflon [®] or PTF	E (Glass F	illed)		A	•

¹ Carbon Steel heads are zinc-plated and not recommended for water service due to hydrogen migration. For that service, use the 316 stainless steel Wetted Reference Head.

² Vent/Drains are Teflon or PTFE coated for lubricity.

³ Hastelloy[®] C-276 or UNS N10276

⁵ Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS.
 ⁶ Supplied as indicated or as Grade CW12MW, the casting equivalent of Hastelloy[®] C-276
 ¹ Except Carbon Steel Heads shall use 316SS Vent/Drain, Plugs & Adapters when required

						Availability
TABLE II			Flange Material	Threaded Nut Ring Material		STFW724
Flange Assembly	a. Flange	3" ANSI Class 150 3" ANSI Class 300 DN80-PN40 DIN 4" ANSI Class 150 4" ANSI Class 300 DN100-PN40 DIN 2" ANSI Class 150 2" ANSI Class 300 DN50-PN40 DIN	304 SS (non- wetted)	304 SS (non-wetted)	A B C D E F Q U V	• • • • • • • • • • • • • • • • • • • •
	(ANSI Flanges have 125-500 AARH Surface Finish)	3" ANSI Class 150 3" ANSI Class 300 DN80-PN40 DIN 4" ANSI Class 150 4" ANSI Class 300 DN100-PN40 DIN 2" ANSI Class 150 2" ANSI Class 300 DN50-PN40 DIN	316 SS (non- wetted)	· · · ·	H H K L M N W X Z	• • • • • •
	b. Gasket Ring (wetted)	Flush Design Extended Design		316L SS Hastelloy [®] C ³ 316L SS	 25	s s v
		Flush			F	w
		Diameter		Length		
	c. Extension (wetted)	1.87 Inches (for 2", 3" or 4 " spud) ¹³		2 inches 4 inches 6 inches	C D E	v v v

³ Hastelloy[®] C-276 or UNS N10276
 ¹³ For part numbers and pricing information on Tank Spuds refer to page ST-91 (Supplementary Accessories & Kits).

TABLE III	Agency Approvals (see data sheet for Approval Code Details)		
	No Approvals Required	0	•
Approvals	ATEX and IEC Ex Explosion proof, Intrinsically Safe, Non-incendive & Dustproof	А	•
Approvais	c CSA US Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof	В	•
	FM Intrinsically Safe, Non-incendive and Dustproof	Н	•

TABLE IV	HOUSING and ELEC	TRONICS SELECTION	DNS		
	Material	Connection	Paint Color		
a. Electronic Housing Material & Connection Type	Epoxy Polyester Hybrid Coated Aluminum Epoxy Polyester Hybrid Coated Aluminum 316 Stainless Steel (Grade CF8M) 316 Stainless Steel (Grade CF8M)	1/2 NPT M20 1/2 NPT M20	Standard (Blue / Gray) Standard (Blue / Gray) None None	C D M N	•
	Wireles	s Protocol			
b. Output/ Protocol	ISA100 Wireless 2.0 compatible (equivalent OW ISA100 Wireless 1.0 compatible (equivalent to 0			_A _B	•
	Power	Options			
c. Power	Battery Holder Only - No Battery Included Battery Power - Batteries included 24 VDC power			0 B D	•
		a Options			, ,
d. Antennas	Integral Right-angle, vertical 4 dBi Remote Omnidirectional, 8 dBi Remote Directional, 14 dBi Remote Antenna Adapter only, Type N Connecti	·		R M D A	•
	Remote Ar	ntenna Cable			<u> </u>
e. Remote Antenna Cable	None Type N Remote Cable, 1.0 m (required for conn Type N Remote Cable, 3.0 m (required for conn Type N Remote Cable, 10.0 m (required for con	ection to transmitte	r)	0_ 1_ 2_ 3_	•
	Lightning Surge Dive	rter and Remote C	able		
f. Surge Diverter and Cable	None Surge Diverter and Type N Cable (1.0 m) Surge Diverter and Type N Cable (3.0 m) Surge Diverter and Type N Cable (10.0 m)			0 1 2 3	•

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			Availability
TABLE V	CONFIGURATION SELECTIONS		STFW724
o Annliantian	Diagnostics and Applications		51FW/24
a. Application Software	Standard Diagnostics	1	•
Software	Standard Diagnostics plus Anti-Alias Filter	3	•
	Destination Country		
b. Country	Canada	_CA_	•
b. Country	European Union	_ EU _	•
	USA and Puerto Rico	_US_	•
c. General	General Configuration		
Configuration	Factory Standard	S	•

TABLE VI		CALIBRATION & ACCURACY SELECTIONS			
Accuracy and	Accuracy	Calibrated Range	Calibration Qty		
Calibration	Standard	Factory Std	Single Calibration	А	•

TABLE VII	ACCESSORY SELECTIONS		
a. Mounting Bracket	None (not required with flange mount unit)	0	•
b. Customer	No customer tag	_0	•
Tag	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	•
	No Conduit Plugs or Adapters Required	A0	•
c. Unassembled	1/2 NPT Male to 3/4 NPT Female 316 SS Certified Conduit Adapter	A2	n
Conduit	1/2 NPT 316 SS Certified Conduit Plug	A6	n
Plugs &	M20 316 SS Certified Conduit Plug	A7	m
Adapters	Minifast [®] 4 pin (1/2 NPT)	A8	n
	Minifast [®] 4 pin (M20)	A9	m
TABLE VIII	OTHER Certifications & Options: (String in sequence comma delimited (XX, XX, XX,)		
	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	с
	EN10204 Type 3.1 Material Traceability (FC33341)	FX	•
	Certificate of Conformance (F3391)	F3	•
	Calibration Test Report & Certificate of Conformance (F3399)	F1	•
Certifications &	Certificate of Origin (F0195)	F5	•
Warranty	Over-Pressure Leak Test Certificate (1.5X MAWP) (F3392)	TP	•
	Cert Clean for O ₂ or CL ₂ service per ASTM G93	OX	е
	PMI Certification	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	•
TABLE IX	Manufacturing Specials		
Factory	Factory Identification	00000	•

MODEL RESTRICTIONS

Restriction Letter	Available Only with		Not Available with	
Restriction Letter	Table	Selection(s)	Table	Selection(s)
C	ld	N		
е	lb	_2		
m	IVa	D, N		
n	IVa	C, M		
S	la	E, X, F		
v	la	R,S		
w			la	R,S
w			llb	_5_
b		Select only o	ne option from this group	

¹The 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 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	
S 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 (Qty4)	50026010-502	
Lithium thionyl chloride batteries (Qty 10)	50026010-503	

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.

ASIA PACIFIC

Honeywell Process Solutions, Phone: + 800 12026455 or +44 (0) 1202645583 (TAC) <u>hfs-tac-</u> <u>support@honeywell.com</u>

Australia

Honeywell Limited Phone: +(61) 7-3846 1255 FAX: +(61) 7-3840 6481 Toll Free 1300-36-39-36 Toll Free Fax: 1300-36-04-70

China – PRC - Shanghai Honeywell China Inc. Phone: (86-21) 5257-4568 Fax: (86-21) 6237-2826

Singapore Honeywell Pte Ltd. Phone: +(65) 6580 3278 Fax: +(65) 6445-3033

South Korea Honeywell Korea Co Ltd Phone: +(822) 799 6114 Fax: +(822) 792 9015

EMEA

Honeywell Process Solutions, Phone: + 800 12026455 or +44 (0) 1202645583

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