SmartLine

Honeywell

Technical Information

SmartLine STUW750 / STUW751 Wireless Universal I/O Transmitter Specification

34-SW-03-12, December 2019

Models:

STUW750

- Upto 3 channels of inputs for T/C's or mV
- Upto 3 channels for High Level Analog Input
- Upto 3 channels for discrete input or 2 wire resistance

STUW751

- Upto 2 channels of inputs for T/C's or mV
- Upto 2 channels for High Level Analog Input
- Upto 2 channels for discrete input or 2 wire resistance

Plus 1 dedicated channel for digital output

Introduction

SmartLine Wireless Universal I/O Transmitter 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 Universal I/O 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.

The SmartLine Wireless Universal I/O 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 Universal I/O

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 ½ second publication rate
- Higher radio range coverage
- More powerful 4 dBi integral antenna
- Smarter local display with more local diagnostics and radio signal and quality indicators
- More input channels and types than earlier

SmartLine Wireless Universal I/O 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 of ½ seconds and 1, 15, 30, 60 minutes
- Transmitter range (integral antenna) of 1150’ (350 m) under ideal conditions.

The STUW750 and STUW751 are a high performance Universal input temperature transmitter featuring performance over a wide of temperature configurations and applications.

The SmartLine family is also fully tested and compliant with Experion® PKS providing the highest level of compatibility assurance and integration capabilities. SmartLine easily meets the most demanding application needs for Temperature measurement applications.

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 WirelessHART™ protocol.

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

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

Wireless Specifications

Parameter	Description
Wireless Communication	2,400 to 2,483.5 MHz (2.4 GHz) Industrial, Scientific and Medical (ISM) band DSSS - Direct Sequential Spread Spectrum per FCC 15.247 / IEEE 802.15.4 2006 Every data packet transmitted in either direction is verified (CRC check) and acknowledged by the receiving device. USA – FCC Certified Canada – IC Certified European Union – Radio Equipment Directive compliant
DSSS RF Transmitter Power	NA Selection –100 mW (20.0 dBm) maximum EIRP including antenna for USA and Canadian locations. EU Selection – 63 mW (18.0 dBm) maximum EIRP including antenna per RTTE/ETSI for EU locations. Compliant to ETSI EN 300 328 wireless standard
Data	PV Publish Cycle Time: Configurable as 0.5, 1, 5, 10, 30 seconds, plus 1, 15, 30, 60 minutes Rate: 250 Kbps
Antennas	Integral – 4 dBi omnidirectional monopole (default selection) Remote – 8 dBi omnidirectional monopole with up to two 10 m cables and lightning surge arrester Remote – 14 dBi directional parabolic with up to two 10 m cables and lightning surge arrester.
Signal Range	Nominal 350 m (1150 feet) between Field Transmitter and Infrastructure Unit (FDAP) when using 4 dBi Integral antenna with a clear line of sight[1]

[1] Actual range will vary depending on antennas, cables and site topography.

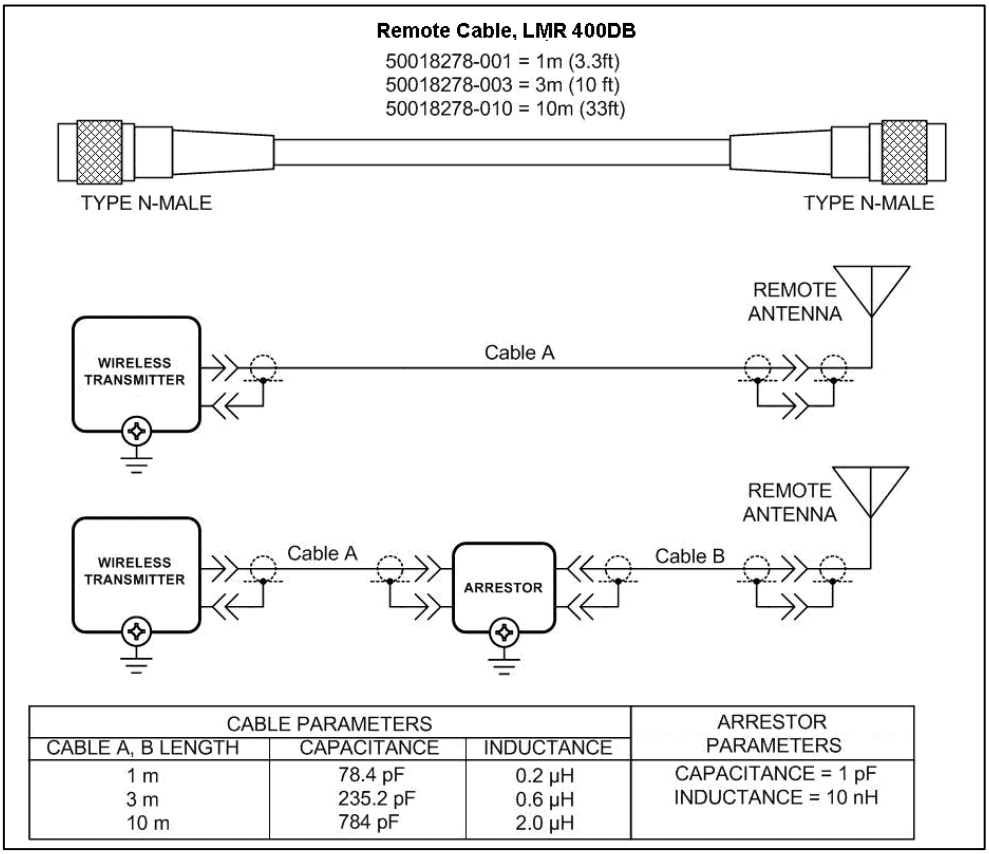
Specifications

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[1]	25 ±1	77 ±2	-40 to 85	-40 to 185	-40 to 85	-40 to 185	-40 to 85	-40 to 185
Ambient Temperature LCD Display visible range	25 ±1	77 ±2	-20 to 70	-4 to 158				
Humidity %RH	10 to 55		0 to 100		0 to 100		0 to 100	
Vibration	Maximum of 4g over 15 to 200Hz.							
Shock	Maximum of 40g.							
Power	Commercially available, non-proprietary 3.6V Lithium thionyl chloride (LiSOCl2) batteries, non-rechargeable, size D. Battery pack-only option is available. Approved list of the manufacturer models: 1. Xeno Energy XL-205F 2. Eagle Picher PT-2300H 3. Tadiran TL-5930/s							
	24 VDC power option. 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							

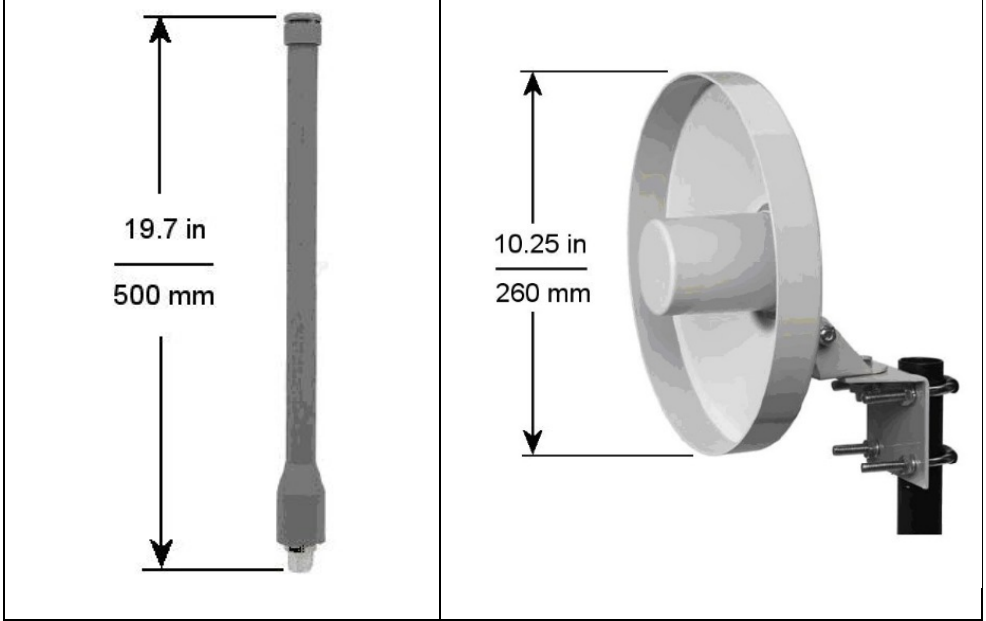
[1] The Ambient Limits shown are for Ordinary Non-Hazardous locations only. Refer to the Hazardous Locations Approvals section for the Ambient Limits when installed in Hazardous Locations.

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[2]

Parameter	Description
Accuracy [1]	±0.10% of range at reference conditions for T/C's, mV and HLAI inputs ±0.30% of range for 2 Wire and DI resistance measurement
Temperature Effects	±0.01% of full scale per °C for T/C's, mV and HLAI inputs ±0.015% of full scale per °C for 2 Wire and DI resistance measurement
Stability	±0.10% of URL per year
Stray Rejection	Common Mode (50 or 60 Hz): 120 dB, Normal Mode (50 or 60 Hz): 40 dB
Maximum Lead Wire Resistance	50 ohms/leg for all analog input types
Discrete Input	Single SPST dry contacts. Maximum "ON" contact resistance of 200 Ohms[3] Minimum "OFF" contact resistance of 300 Ohms[3] Resistances must include all field wiring. Thresholds values are configurable.
Discrete Output	AC/DC Voltage Supply 30 V max Load current = 0.5 A max
Battery Life with Digital Output	50% Duty cycle - Approximately 1 year
4-20 mA Input Loop Resistance	max 50 Ohms (10 ohms resistor + signal diode)
Cold Junction Accuracy	±0.5 °C
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.
Hazardous Location Certifications	See the Model Selection Guide on page **15.**
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

[1] Field Calibration available for increased accuracy applications

[2] Performance specifications are based on reference conditions of 25°C (77°F), 10 to 55% RH

[3] Default values; user configurable

Physical Specifications

Parameter	Description
Mounting Bracket	Carbon Steel (zinc-plated) or Stainless Steel angle bracket or flat bracket available.
Electronic Housing	Epoxy-Polyester hybrid paint. Low Copper-Aluminum with 1/2" NPT or M20 conduit connections. Meets NEMA 4X (hosedown and corrosion resistant), IP 66/67 (hosedown and submersible to 1m).
Stainless Steel Housing (option)	316 SS or Grade CF8M, the casting equivalent of 316 SS with M20 or 1/2" NPT conduit 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 and Figure 3
Dimensions	See Figure 4, Figure 5 and Figure 6.
Net Weight	Approximately 9 pounds (4.1 Kg)

[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)

STUW750 ISA100.11a Compliant Inputs

Any combination of sensor type inputs is allowed. The input channels can be configured for the following input types by using the OneWireless User Interface with the corresponding device descriptor file:

Channel 1	Channel 2	Channel 3
T/C, mV, mA, DI, 2W Resistance	T/C, mV, mA, DI, 2W Resistance	T/C, mV, mA, DI, 2W Resistance

STUW751 ISA100.11a Compliant Inputs

Any combination of sensor type inputs is allowed. The input channels can be configured for the following input types by using the OneWireless User Interface with the corresponding device descriptor file:

Channel 1	Channel 2	Channel 3
T/C, mV, mA, DI, 2W Resistance	T/C, mV, mA, DI, 2W Resistance	DO only

The transmitter measures the analog signal from temperature sensors, discrete inputs, millivolt values or ohm values and transmits a digital output signal proportional to the measured value for direct digital communications with systems.

The discrete input channels support voltage-free floating contacts. Maximum ON contact resistance is 200 ohms. Minimum OFF contact resistance is 300 ohms. Discrete Input threshold values are user configurable.

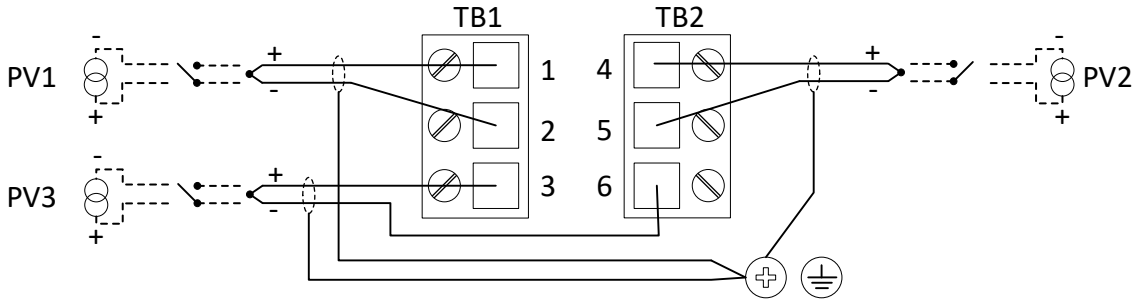
The Process Variable (PV) is available for monitoring and alarm purposes. The cold junction temperature is also available for monitoring. Available PV update rates are 1, 5, 10, or 30 seconds, plus new selections of ½ sec (Refer User Manual for applicable conditions) and 1, 15, 30, 60 minutes and are set using the Wireless Builder. Slower update rates extend battery life.

Input Types and Ranges

Input Type	Range Deg.F	Range Deg.C
Type B T/C	0 to 3300	-18 to +1816
Type E T/C	-454 to +1832	-270 to +1000
Type J T/C	0 to 1600	-18 to + 871
Type K T/C	0 to 2400	-18 to +1816
Type N T/C	0 to 2372	-18 to +1300
Type R T/C	0 to 3100	-18 to +1704
Type S T/C	0 to 3100	-18 to +1704
Type T T/C	-300 to +700	-184 to +371
Millivolts	0 to 10 mV 0 to 50 mV 0 to 100 mV	
2W Resistance (Ohms)	0 to 100Ω 0 to 200Ω 0 to 500Ω 0 to 1000Ω	
Discrete input	200 Ohms Max ON Contact Resistance (user configurable) 300 Ohms Min OFF Contact Resistance (user configurable)	
High Level Analog Input Current Ranges	0 to 20 mA / 4-20 mA	

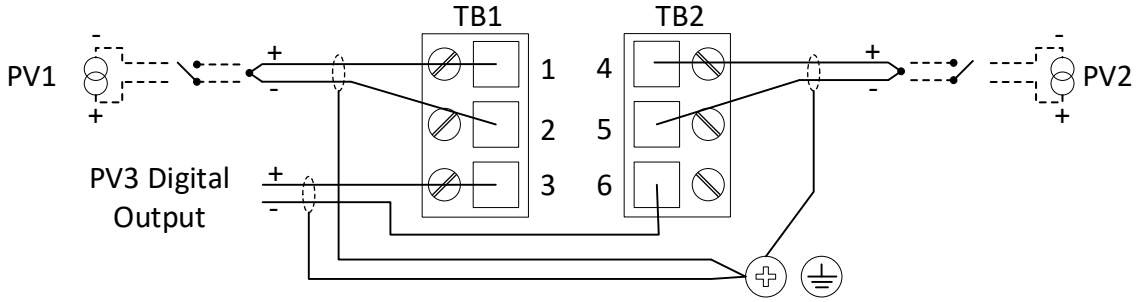
STUW750 UNIVERSAL IO TRANSMITTER CONNECTIONS

HLAI (0/4-20mA) or T/C or mV or DI or 2 Wire Resistance



STUW751 UNIVERSAL IO TRANSMITTER CONNECTIONS

HLAI (0/4-20mA) or T/C or mV or DI or 2 Wire Resistance
AND Digital Output



Mounting and Dimensions

Reference Dimensions:

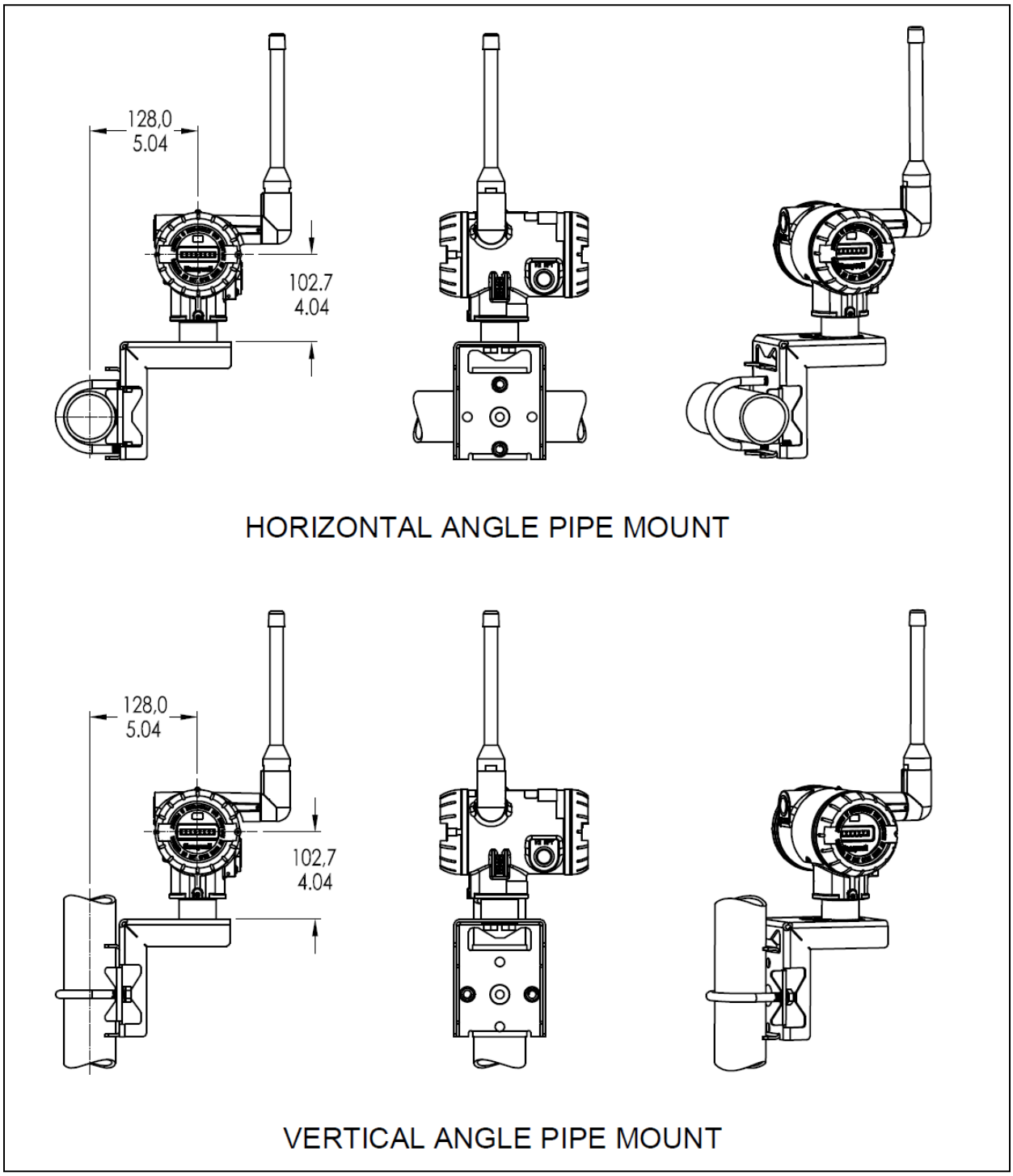


Figure 2 — Examples of typical mounting positions, angle pipe

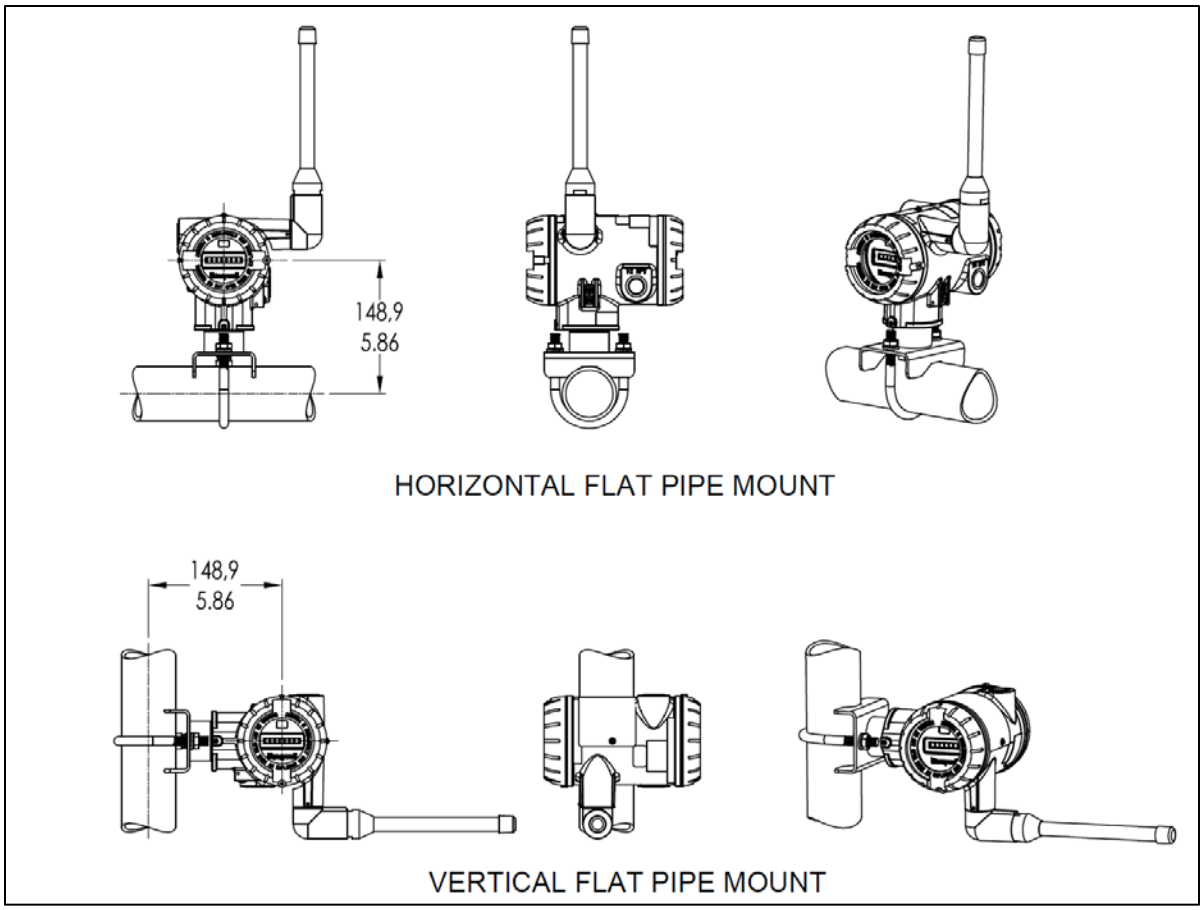


Figure 3 — Examples of typical mounting positions, flat pipe

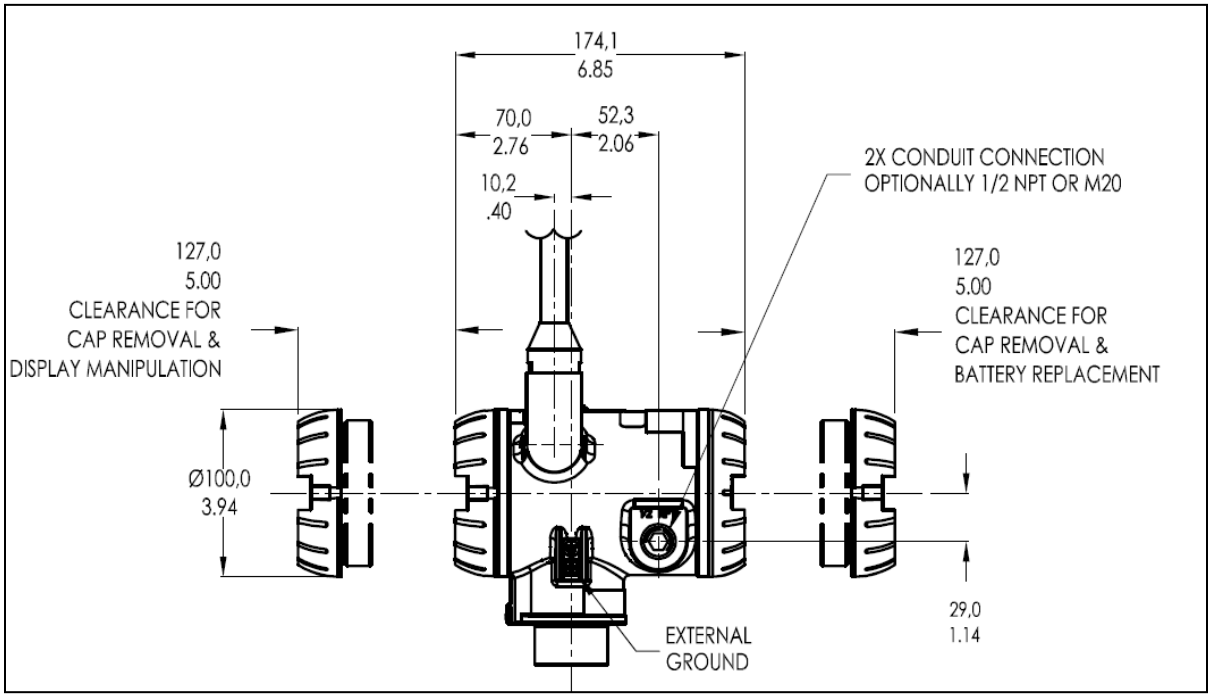


Figure 4 – STUW750 Informational and dimensional drawing

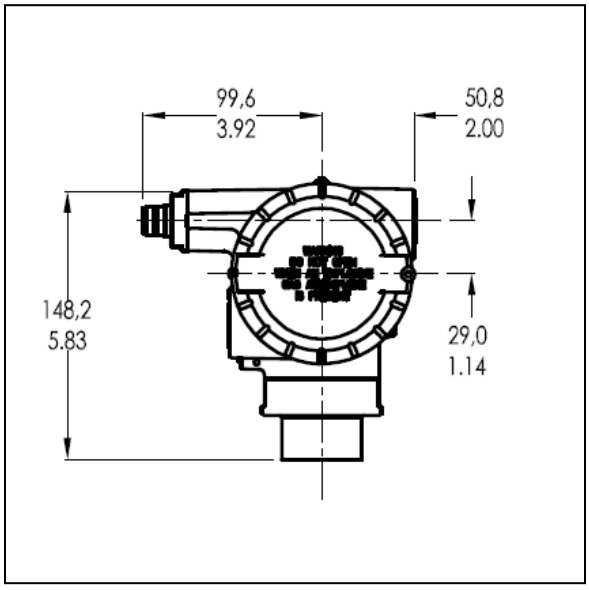


Figure 5 — Typical mounting dimensions for STUW750

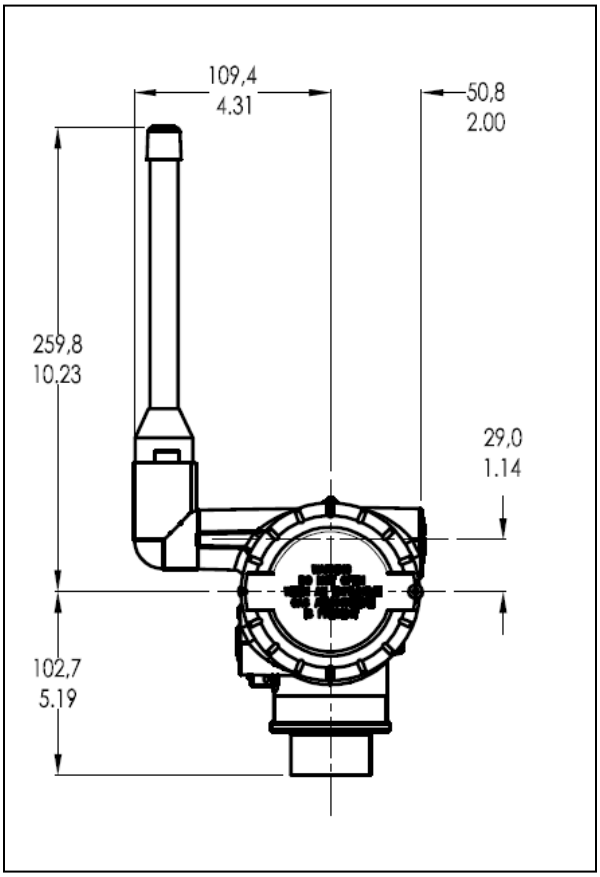


Figure 6 — Typical mounting dimensions for STUW750

Hazardous Locations Approvals

Refer to control drawing 50136129, in the User's manual #34-SW-25-04, for intrinsically safe installation details

AGENCY	TYPE OF PROTECTION	Ambient Temperature
CSA **(USA and Canada)**	**Intrinsically Safe:** Class I; Division 1; Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; T4 Class I, Zone 0 AEx ia IIC T4 Ga Class I Zone 2 AEx ic IIC T4 Gc Ex ia IIC T4 Ga Ex ic IIC T4 Gc	-40 to +80°C: ia -40 to +85°C: ic
	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	-40°C to +85°C : T5 -40°C to +75°C : T6
	Explosion-Proof/ Flameproof/Dust Proof: Class I, Division 1; Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; T6...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	-40°C to +85°C : T5 -40°C to +75°C : T6 -40°C to +85°C : T95
	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
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
	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
	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
	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	
ATEX	Intrinsically Safe: II 1 G Ex ia IIC T4 Ga II 3 G Ex ic IIC T4 Gc	-40 to +80°C: ia -40 to +85°C: ic	
	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	-40°C to +85°C : T5 -40°C to +75°C : T6	
	Non Incendive: II 3[1] G Ex ec [ia Ga] IIC T6...T4 Gc	-40°C to +85°C : T5 -40°C to +75°C : T6	
	Enclosure: IP66/ IP67		
	Standards Used: EN 60079-0 : 2012 + A11:2013	EN 60079-1 : 2014 EN 60079-7 : 2015	EN 60079-11 : 2012 EN 60079-31 : 2014

AGENCY	TYPE OF PROTECTION	Ambient Temperature	
IECEx	**Intrinsically Safe:** Ex ia IIC T4 Ga Ex ic IIC T4 Gc	-40 to +80°C: ia -40 to +85°C: ic	
	Flameproof / Dust Proof: Ex db [ia Ga] IIC T6...T4 Gb Ex tb [ia Da] IIIC T95C...T125C Db	-40°C to +85°C : T5 -40°C to +75°C : T6	
	Non Incendive: Ex ec [ia Ga] IIC T6..T4 Gc	-40°C to +85°C : T5 -40°C to +75°C : T6	
	Enclosure: IP66 /IP67		
	Standards Used: IEC 60079-0 : 2017	IEC 60079-1 : 2014 IEC 60079-7 : 2015	IEC 60079-11 : 2011 IEC 60079-31 : 2013

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.

Destination Country (CA, EU, or US)

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

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.

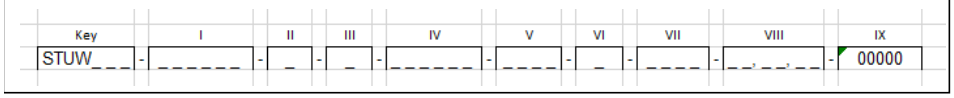
Model Selection Guide

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

Model STUW750
SmartLine Wireless Temperature and Discrete Input Transmitter

Model Selection Guide:
34-SW-16-06 Issue 1

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 NUMBER	DESCRIPTION	Selection	Availab	
Type	Wireless Universal I/O - 3 inputs (1-3) HLAI, (1-3) T/C, (1-3) mV, or (1-3) Discrete Inputs	STUW750	↓	
	Wireless Universal I/O - 2 inputs (1-2) HLAI, (1-2) T/C, (1-2) mV, or (1-2) DI, plus one DO	STUW751		↓

TABLE I	RESERVED MULTI-OPTION			
	No selection	000000	*	*

TABLE II	RESERVED OPTION			
	No Selection	0	*	*

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

TABLE IV	HOUSING and 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 _ _ _	*	*
b. Country	Destination Country			
	Canada	_ CA _	*	*
	European Union (RED compliant countries includes Australia)	_ EU _	*	*
	USA and Puerto Rico	_ US _	*	*
c. General Configuration	Factory Standard	_ _ _ S	*	*

TABLE VI	CALIBRATION & ACCURACY SELECTIONS				
a. Accuracy and Calibration	Accuracy	Calibrated Range	Calibration Qty		
	Standard	Factory Std	Single Calibration	A	* *

TABLE VII	ACCESSORY SELECTIONS				
a. Mounting Bracket	Bracket Type	Material			
	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
	1/2 NPT 316 SS Certified Conduit Plug		_ _ A6	n	n
	M20 316 SS Certified Conduit Plug		_ _ A7	m	m
	Minifast® 4 pin (1/2 NPT) (not suitable for X-Proof applications)		_ _ A8	n	n
	Minifast® 4 pin (M20) (not suitable for X-Proof applications)		_ _ A9	m	m

TABLE VIII	OTHER Certifications & Options: (String in sequence comma delimited (XX, XX, XX,....)				
Certifications & Warranty	None - No additional options	00	*	*	
	EN10204 Type 3.1 Material Traceability (FC33341)	FX	*	*	
	Certificate of Conformance (F3391)	F3	*	*	b
	Calibration Test Report & Certificate of Conformance (F3399)	F1	*	*	
	Certificate of Origin (F0195)	F5	*	*	
	PMI Certification[1]	PM	*	*	
	Extended Warranty Additional 1 year	01	*	*	
	Extended Warranty Additional 2 years	02	*	*	b
	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	
	Table	Selection(s)	Table	Selection(s)
m	IV a	D, N _ _ _ _ _		
n	IV a	C, M _ _ _ _ _		
b	Select only one option from this group			

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
Integral right-angle, vertical 4 dBi, aluminum pure polyester	50030973-503
Integral right-angle, vertical 4 dBi, aluminum epoxy-polyester	50030973-504
Integral right-angle, vertical 4 dBi, 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 Temperature and UIO Transmitter User's Manual	34-SW-25-04

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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