

Technical Information

STG73SP SmartLine Flush Mount Gauge Pressure Specification 34-ST-03-128, November 2016



Introduction

Part of the SmartLine® family of products, the STG73SP is a gauge pressure transmitter with a flush mounted diaphragm. Installed using a 1" sleeve welded to the process piping the diaphragm face may be situated flush with the process piping wall. Typically applied to applications such as head boxes in pulp and paper mills, flush mounting eliminates the possibility of clogging. In addition the transmitter mounting facilitates rapid and trouble free replacement.

Best in Class Features:

- o Flush mounting design.
- $\circ\quad$ Accuracy up to 0.065 % of calibrated span
- o Stability up to 0.025% of URL per year for five years
- o Automatic temperature compensation
- o Rangeability up to 100:1
- o Response times as fast as 100ms
- o Easy to use and intuitive display capabilities
- o External zero, span, & configuration capability
- o Polarity insensitive electrical connections
- o On-board diagnostic capabilities
- Integral Dual Seal design for safety based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0
- o Full compliance to SIL 2/3 requirements as a standard.
- o Modular design characteristics

Communications/Output Options:

o HART ® (version 7.0)



Figure 1 – STG73SP Flush Mount Gauge Pressure Transmitters feature field-proven piezoresistive sensor technology

Span & Range Limits:

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Model	URL/Max Span psig (barg)	LRL psig (barg)	Min Span	Turn down				
STG73P	100 (7.0)	-14.7 (-1.0)	1 (0.07)	100:1				

Description

The SmartLine family pressure transmitters are designed around a high performance piezo-resistive sensor. This one sensor actually integrates multiple sensors linking process pressure measurement with on-board static pressure (DP Models) and temperature compensation measurements..

Indication/Display Option

Standard LCD Display Features

- Modular (may be added or removed in the field)
- Supports HART protocol variant
- o 0, 90,180, & 270 degree position adjustments
- Configurable (HART only) and standard (Pa, KPa, MPa, KGcm2, Torr, ATM, inH₂O, mH₂O, bar, mbar, inHG, FTH₂O, mmH₂O, mm HG, & psi) measurement units.
- o Supports Flow engineering units
- o 2 Lines 6 digits PV (9.95H x 4.20W mm) 8 Characters
- Write protect Indication
- Built in Basic Device Configuration through Internal Buttons – Range/Engineering Unit/Loop Test /Loop Calibration/Zero /Span Setting

Diagnostics

SmartLine transmitters all offer digitally accessible diagnostics which aid in providing advanced warning of possible failure events minimizing unplanned shutdowns, providing **lower overall operational costs**

System Integration

- SmartLine communications protocols all meet the most current published standards for HART.
- All ST 700 units are Experion tested to provide the highest level of compatibility assurance

Configuration Tools

External Two Button Configuration Option

Suitable for all electrical and environmental requirements, SmartLine offers the ability to configure the transmitter and display, for all the basic parameters, via two externally accessible buttons when a display option is selected. Zero/span capabilities are also optionally available via two external buttons with or without selection of the display option.

Internal Two Button Configuration Option

The Standard display has two buttons that can be used for Basic configuration such as re ranging, PV Engineering unit setting, Zero/Span settings, Loop testing and calibration functions.

Hand Held Configuration

SmartLine transmitters feature two-way communication and configuration capability between the operator and the transmitter. This is accomplished via Honeywell's field-rated Multiple Communication Configurator (MCT404). The MCT404 is capable of field configuring DE and HART Devices and can also be ordered for use in intrinsically safe environments. All Honeywell transmitters are designed and tested for compliance with the offered communication protocols and are designed to operate with any properly validated hand held configuration device.

Personal Computer Configuration

Field Device Manager (FDM) Software and FDM Express are also available for managing HART configurations.

Modular Design

To help contain maintenance & inventory costs, all ST 700 transmitters are modular in design supporting the user's ability to replace meter bodies, standard displays or electronic modules without affecting overall performance. Each meter body is uniquely characterized to provide intolerance performance over a wide range of application variations in temperature and pressure.

Modular Features

- Meter body replacement
- Add or remove standard displays
- Add or remove lightning protection (terminal connection)

With no performance effects, Honeywell's unique modularity results in lower inventory needs and lower overall operating costs.

Performance Specifications

Reference Accuracy: (conformance to +/-3 Sigma)

Model	URL	LRL	Min Span	Maximum Turndown Ratio	Stability (%URL/Year for five years)	Reference Accuracy ^{1,2} (%Span)
STG73SP	100 psi (7.0 bar)	-14.7 psi (-1.0 bar)	1.0 psi (0.07 bar)	100:1	0.025%	0.065%

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

Accuracy, Span and Temperature Effect: (conformance to +/-3 Sigma)

		Accuracy ^{1,2} (% of Span)			Combined Zero & Span Temperature Effect (% Span/50°F)		
Model	URL	For C C psi (bar)				D	E
STG73SP	100 psi (7.0 bar)	4:1 0.025 0.04 25 (1.7)			0.075	0.065	
		Turn Down Effect $\pm \left[A + B \left(\frac{C}{Span} \right) \right]$ % Span			Temp Eff $\pm \left[D + E\left(\frac{UF}{Sp}\right)\right]$ % Span per 28%	$\left[\frac{RL}{an}\right]$	

Total Performance (% of Span):

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

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

STG73SP @20 psi: 0.405% of span

Typical Calibration Frequency:

Calibration verification is recommended every two (2) years

Notes:

- 1. Terminal Based Accuracy Includes combined effects of linearity, hysteresis, and repeatability. Analog output adds 0 .006% of span.
- 2. For zero based spans and reference conditions of: 25°C (77°F), for LRV>= 0 psia, 10 to 55% RH.

Operating Conditions - All Models

Parameter	Reference Condition		Rated Condition		Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F
Ambient Temperature ¹	25±1	77±2	-15 to 65	5 to 149	-15 to 65	5 to 149	-55 to 75	-67 to 167
Process Interface Temperature	25±1	77±2	-15 to 65	5 to 149	-15 to 95 ²	5 to 203	N/A	N/A
Humidity %RH	10 1	10 to 55 0 to 1		100	0 to 100		0 to 100	
Vac. Region – Min. Pressure mmHg absolute inH ₂ O absolute		spheric spheric	300 150		2 (short term) ³ 1 (short term) ³			
Supply Voltage	10.8 to 42.4 Vdc at terminals							
Load Resistance	0 to 1,440 ohms (as shown in Figure 2)							
Maximum Allowable Working Pressure (MAWP) ^{4, 5}	STG73	3SP: 1	00 psi (7.0 ba	r)				
(ST700 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)								

 $^{^{1}}$ LCD Display Storage temperature lower limit is -30 $^{\circ}\text{C}.$

 $^{^{\}rm 5}$ Consult factory for MAWP of ST 700 transmitters with CRN approval

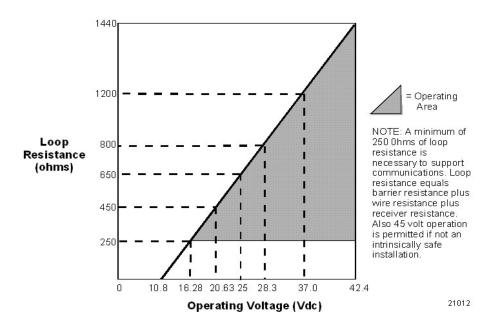


Figure 2 - Supply voltage and loop resistance chart & calculations

 $^{^2}$ Process temperatures above 65°C (149°F) require a 1:1 reduction in maximum ambient temperature.

 $^{^3}$ Short term equals 2 hours at 70°C (158°F)

 $^{^{4}}$ Units can withstand overpressure of 1.5 x MAWP without damage

Performance Under Rated Conditions – All Models

Parameter	Description		
Analog Output Digital Communications:	Two-wire, 4 to 20 mA		
Output Failure Modes (configurable)	Normal Limits: Failure Mode:	Honeywell Standard: 3.8 – 20.8 mA ≤ 3.6 mA and ≥ 21.0 m	NAMUR NE 43 Compliance: 3.8 – 20.5 mA ≤ 3.6 mA and ≥ 21.0 mA
Supply Voltage Effect	0.005% span per volt		
Transmitter Turn on Time (includes power up & test algorithms)	2.5 sec		
Response Time (delay + time constant)	100ms		
Damping Time Constant	Adjustable from 0 to 3	32 seconds in 0.1 incremen	ts. Default Value: 0.5 seconds
Vibration Effect:	Less than +/- 0.1% of Per IEC60770-1 field acceleration)	. •	evel (10-2000Hz: 0.21 displacement/3g max
Electromagnetic Compatibility	IEC 61326-3-1		
Lightning Protection Option	Leakage Current: 10 Impulse rating: 8/20uS 10/1000uS	0uA max @ 42.4VDC 93C 5000A (>10 strikes) 200A (> 300 strikes)	10000A (1 strike min.)

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

Parameter	Description
Process Diaphragms (wetted)	Hastelloy ® C-276 ²
Meter Body Materials (wetted)	316L Stainless Steel
Process Seal	Viton® O-ring
Fill Fluid	Silicone oil 200
Mounting Bracket	Carbon Steel (Zinc-Chromate plated) or 304 Stainless Steel or 316 Stainless Steel. See Figures 4 & 5
Electronic Housing	Pure Polyester Powder Coated Low Copper (<0.4%)-Aluminum. Meets NEMA 4X, IP66, IP67 and NEMA 7 (explosion proof). All stainless steel housing is optional.
Process Connection Type	STG73SP: Flush mount in 1" sleeve with O-ring and locking bolt.
Wiring	Accepts up to 16 AWG (1.5 mm diameter).
Dimensions	See Figure 3
Net Weight	STG73SP: 3.9 pounds (1.8 Kg) with Aluminum Housing

² Hastelloy® C-276 or UNS N10276

Communications Protocols & Diagnostics

HART Protocol

Version:

HART 7

Power Supply

Voltage: 10.8 to 42.4Vdc at terminals Load: Maximum 1440 ohms See Figure 2

Minimum Load: 0 ohms. (For handheld communications a

minimum load of 250 ohms is required)

Standard Diagnostics

ST 700 top level diagnostics are reported as either critical or non-critical and readable via the DD/DTM tools or integral display as shown

Critical Diagnostics

HART DD/DTM Tools	Standard Display
Electronic Module DAC Failure	Fault Comm El
Meter Body NVM Corrupt	Fault Mtrbody
Config. Data Corrupt	Fault Comm El
Electronic Module Diag Failure	Fault Comm El
Meter Body Critical Failure	Fault Mtrbody
Sensor Comms Timeout	Fault Mbd Com

Non-Critical Diagnostics

HART DD/DTM Tools
Display Failure
Electronic Module Comm Failure
Meter Body Excess Correct
Sensor Over Temperature
Fixed Current Mode
PV Out of Range
No Factory Calibration
LRV Set Error – Zero Config. Button
URV Set Error – Zero Config. Button
AO Out of Range
Loop Current Noise
Meter Body Unreliable Comm
No DAC Calibration
Sensor Supply Voltage Low

Refer to ST 700 manuals for additional level diagnostic information.

Approval Certifications:

AGENCY	TYPE OF PROTECTION	FIELD PARAMETERS	AMBIENT TEMP (Ta)
	Explosionproof: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G; Class I, Zone 0/1, AEx d IIC Ga/Gb Class II, Zone 21, AEx tb IIIC Db T 95°C	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
FM Approvals™	Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G: Class I, Zone 0, AEx ia IIC Ga		T4: -50 °C to 70°C
	Nonincendive: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx nA IIC Gc	Note 1	T4: -50 °C to 85°C
	Enclosure: Type 4X/ IP66/ IP67	All	-
	Explosion Proof: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G; Ex d IIC Ga Ex tb IIIC Db T 95°C	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
Canadian Standards Association (CSA)	Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; Ex ia IIC Ga		T4: -50 °C to 70°C
	Nonincendive: Class I, Division 2, Groups A, B, C, D; T4 Ex nA IIC Gc	Note 1	T4: -50 °C to 85°C
	Enclosure: Type 4X/ IP66/ IP67	All	-
	Flameproof: II 1/2 G Ex d IIC Ga/Gb II 2 D Ex tb IIIC Db T 95°C	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
ATEX	Intrinsically Safe: II 1 G Ex ia IIC Ga		T4: 50 °C to 70°C
	Nonincendive: II 3 G Ex nA IIC Gc	Note 1	T4: -50 °C to 85°C
	Enclosure: IP66/ IP67	All	-

Approval Certifications: (Continued)

Approval Certific	eations: (Continued)		
	Flameproof: Ex d IIC Ga/Gb Ex tb IIIC Db T 95°C Note 1		T5: -50 °C to 85°C T6: -50 °C to 65°C
IECEx (World)	Intrinsically Safe: Ex ia IIC Ga		T4: -50 °C to 70°C
	Nonincendive: Ex nA IIC Gc	Note 1	T4: -50 °C to 85°C
	Enclosure: IP66/ IP67	All	-
	Flameproof: Ex d IIC Ga/Gb Ex tb IIIC Db T 85°C	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
NEPSI (China)	Intrinsically Safe: Ex ia IIC Ga		T4: -50 °C to 70°C
	Nonincendive: Ex nA IIC Gc	Note 1	T4: -50 °C to 85°C
	Enclosure: IP 66/67	All	-

Notes:

1. Operating Parameters:

Other Certification Options

Materials

o NACE MRO175, MRO103, ISO15156

SIL 2/3 Certification	IEC 61508 SIL 2 for non-redundant use and SIL 3 for redundant use according to EXIDA and TÜV Nord Sys Tec GmbH & Co. KG under the following standards: IEC61508-1: 2010; IEC 61508-2: 2010; IEC61508-3: 2010.
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Dimension (Inline Design)

Reference Dimensions: millimeters inches

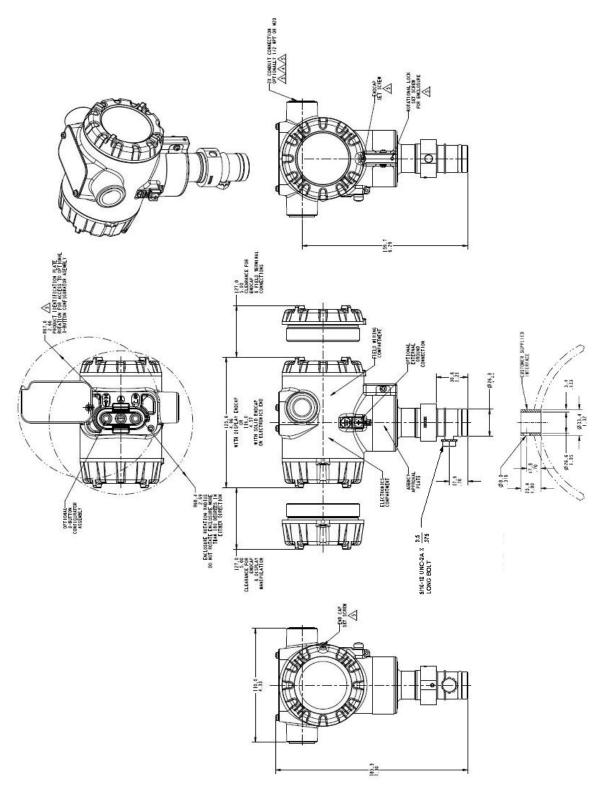


Figure 3 Typical dimensions of STG73SP

Model Selection Guides are subject to change and are inserted into the specifications as guidance only. Prior to specifying or ordering a model check for the latest revision Model Selection Guides which are published at: www.honeywellprocess.com/en-US/pages/default.aspx

Model Selection Guide

Model STG73SP Flush Mount Pressure Transmitter

Model Selection Guide

Model Selection 34-ST-16-125 Is						
	ke selections fromall Tables ted in the restrictions table. T			terisk indicates availability. Letter (a) refers to		
Key STG7			V VI V	1 V X [,,] - [0000]		
KEY NUMBER Flush Mount	URL/Max Span 100 (7.0)	LRL -14.7 (-1.0)	Min Span 1.0 (0.07)	Units psi (bar)	Selection STG73SP	Availabilit
TABLE	100 (7.0)		BODY SELECT		010/30/	
a. Process	Process Interfa			arrier Diaphragm Material		
Interface &	316L Stainle	Hastelloy [®] C - 276 ¹	l [_	*		
Diaphragm					F	
b. Fill Fluid			Silicone 200		_1	*
c. Process Connection	1"	Slip in with locking s	crew (sleeve opt	ional see table VIII)	1	*
d. Bolt/Nuts			None		0	*
e. Vent/Drain			None		0_	*
f. Gasket/Seal			Viton O-ring		В	*
¹ Hastelloy® C-276 o	or UNS N10276					
TABLE II	Meter Body & Connection	on Orientation			1	
Head/Connect					0	*
Orientation			None			
TABLEIII		ACEN	ICV ADDDOVAL	C	1	
TABLE III	No Approvals Required	AGEN	ICY APPROVAI		0	*
	<fm> Explosion proof, Ir</fm>	ntrinsically Safe, Non	ı-incendive, & Du	stproof	A	*
Approvale	CSA Explosion proof, Int				В	*
Approvals	ATEX Explosion proof, In	trinsically Safe & No	n-incendive		С С	*
	IECEx Explosion proof, I				D	*
	NEPSI Explosion proof,	inumsically sale & N	ion-incentive		G	ı "
TABLE IV		TRANSMITTER E	LECTRONICS	SELECTIONS	1	
	Mater	ial	Connection	Lightning Protection		
	Polyester Powder Co		1/2 NPT	None	A	*
a. Electronic	Polyester Powder Co		M20	None	B	*
Housing Material &	Polyester Powder Co Polyester Powder Co		1/2 NPT M20	Yes Yes	C	*
Connection	316 Stainless Steel		1/2 NPT	None	D E	*
Туре	316 Stainless Stee	` '	M20	None		*
1 2.	316 Stainless Stee	,	1/2 NPT	Yes	G G	*
	316 Stainless Stee	` '	M20	Yes	н	*
b. Output/	Analog O			Digital Protocol		
Protocol	4-20m <i>A</i>			HART Protocol	_H_	*
	Indicator	Ext Zero,Span & C		Languages		
	None None	None Yes (Zero/Sp		None None	0 0	*
c. Customer	Standard(w/Internal	165 (2610/5)	Dail Only)	None	A	
Interface	Zero,Span & Config	None	е	EN	S	*
Selections	Buttons)				11	
	Standard(w/Internal				11	
	Zero,Span & Config	Yes		EN	T	*
	Buttons)				J	

c. General Configuration Cutyput Limit, Failsafe & Write Protect Settings Cn. General Configuration Cutyput Limits a	tandard Diagnostics Write Protect isabled isabled nabled nabled	Fail Mode High> 21.0mAdc Low< 3.6mAdc High> 21.0mAdc Low< 3.6mAdc	Honeywell Sto Honeywell Sto Honeywell Sto Honeywell Sto Honeywell Sto eral Configuration	d (3.8 - 20.8 mAdc) d (3.8 - 20.8 mAdc)		1	,
o. Output Limit, Failsafe & Write Protect Settings C. General Configuration NAMUR Output Limits a	Write Protect isabled isabled nabled nabled	Fail Mode High> 21.0mAdc Low< 3.6mAdc High> 21.0mAdc Low< 3.6mAdc	Honeywell Sto Honeywell Sto Honeywell Sto	d (3.8 - 20.8 mAdc) d (3.8 - 20.8 mAdc) d (3.8 - 20.8 mAdc)		_2_ _3_	
Failsafe & Write Protect Settings Engine Eng	isabled isabled nabled nabled	High> 21.0mAdc Low< 3.6mAdc High> 21.0mAdc Low< 3.6mAdc	Honeywell Sto Honeywell Sto Honeywell Sto	d (3.8 - 20.8 mAdc) d (3.8 - 20.8 mAdc) d (3.8 - 20.8 mAdc)		_2_ _3_	
Failsafe & Write Protect Settings Engine Eng	isabled nabled nabled	Low< 3.6mAdc High> 21.0mAdc Low< 3.6mAdc	Honeywell Sto Honeywell Sto Honeywell Sto	d (3.8 - 20.8 mAdc) d (3.8 - 20.8 mAdc)		_2_ _3_	
Write Protect Settings c. General Configuration NAMUR Output Limits a	nabled nabled	High> 21.0mAdc Low< 3.6mAdc	Honeywell Sto	d (3.8 - 20.8 mAdc)		_3_	
c. General Configuration NAMUR Output Limits a	nabled	Low< 3.6mAdc	Honeywell Sto	,			
c. General Configuration Customation Customation Customation TABLE VI				d (3.8 - 20.8 mAdc)		4	,
Configuration Cus NAMUR Output Limits a	actory Standard	Gen	eral Configurati				
Configuration Cus NAMUR Output Limits a	actory Standard			ion			
NAMUR Output Limits a						S	
TABLE VI	ustom Configuration	n (Unit Data Required f	from customer)			C	
	are configurable by cr	ustomer					
		CALIDDATION	& ACCURACY S	SEI ECTIONS			
i. Accuracy and	Accuracy	Calibrated		Calibration Qty	,		
Sta	andard	Factory Standard	, runge	Single Calibration		Α	
	tandard	Custom (Unit Data	Required)	0. 1 0 111 11		В	
			(toquilou)	Single Calibration		_	1
TABLE VII		,	SORY SELECT	, ,		_	

TABLE VII	ACCESSORY SELECTIONS		
a. Mounting Bracket	None(Not required with Flush Mount Unit)	0	*
b. Customer	Customer Tag Type		
	No customer tag	_0	*
Tag	One Wired Stainless Steel Tag (Up to 4 lines 26 char/line)	_1	*
c Unaccombled	Unassembled Conduit Plugs & Adapters		
Conduit	No Conduit Plugs or Adapters Required	A0	*
	1/2 NPT Male to 3/4 NPT Female 316 SS Certified Conduit Adapter	A2	n
Plugs &	1/2 NPT 316 SS Certified Conduit Plug	A6	n
Adapters	M20 316 SS Certified Conduit Plug	A7	m
TABLE VIII	OTHER Certifications & Options: (String in sequence comma delimited (XX, XX, XX,)		
	No additional autions	00	*

TABLE VIII	OTHER Certifications & Options: (String in sequence comma delimited (XX, XX, XX,)			
Certifications & Warranty	No additional options NACE MR0175; MR0103; ISO15156 Process wetted parts only NACE MR0175; MR0103; ISO15156 Process wetted and non-wetted parts EN10204 Type 3.1 Material Traceability Certificate of Conformance Calibration Test Report & Certificate of Conformance Certificate of Origin	00 FG F7 FX F3 F1 F5 FE CF PM MS 01 02 03 04	* * * * * * * * * * * * * * * * * *	b b

	·				_
	•				
TABLE IX	Manufacturing Specials				
Factory	Factory Identification	П	0000	*	1

RESTRICTIONS

Ava	ilable Only with	Not Available with		
Table	Selection(s)	Table	Selection(s)	
		Vb	_ 1,2_	
IV a	B,D,F,H			
IV a	A,C,E,G			
Select Only one option from this group				
	Table IV a	IVa B,D,F,H IVa A,C,E,G	Table Selection(s) Table IV a B,D,F,H IV a A,C,E,G	

⁴The PM option is available on all Smartline 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 STG and STA in-line construction pressure transmitters.

FIELD INSTALLABLE ACCESSORY KITS

Description	Kit Number
Terminal Strip w/Lightning Protection Kit for HART Module	50129832-501
Terminal Strip w/o Lightning Protection for HART Module	50129832-502
HART Electronics Module	50129828-501
HART Electronics Module w/connection for external configuration buttons	50129828-502
Standard Display Module	50126003-501

Sales and Service

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

ASIA PACIFIC

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Specifications are subject to change without notice.

For more information

To learn more about SmartLine Transmitters, visit www.honeywellprocess.com
Or contact your Honeywell Account Manager

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