

Technical Information

STD800 SmartLine Differential Pressure Specification 34-ST-03-82, November 2018



Introduction

Part of the SmartLine® family of products, the STD800 is a high performance differential pressure transmitter featuring piezoresistive sensor technology. By combining differential pressure sensing with on chip static pressure and temperature compensation the STD800 offers high accuracy and stability over a wide range of application pressures and temperatures. 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 pressure measurement applications.

Best in Class Features:

- Accuracies up to 0.035% standard & 0.025% Opt
- Stability up to 0.01% of URL per year for ten years
- Automatic static pressure & temperature compensation
- Rangeability up to 400:1
- Response times as fast as 90ms
- Multiple local display capabilities
- External zero, span, & configuration capability
- Polarity insensitive electrical connections
- Comprehensive on-board diagnostic capabilities
- Integral Dual Seal design for highest safety based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0
- World class overpressure protection
- Full compliance to SIL 2/3 requirements.
- Modular design characteristics
- Available with 15-year warranty
- Plugged Impulse Line Detection Option
- Dual/Triple Calibration Option (HART & Fieldbus Only)



Figure 1 – STD800 Differential Pressure Transmitters feature field-proven piezoresistive sensor technology

Communications/Output Options:

- 4-20mA dc
- Honeywell Digitally Enhanced (DE)
- HART® (version 7.0)
- FOUNDATION™ Fieldbus

All transmitters are available with the above listed communications protocols.

Span & Range Limits:

Model	URL “H ₂ O (mbar)	LRL “H ₂ O (mbar)	Max Span “H ₂ O (mbar)	Min Span “H ₂ O (mbar)
STD810	10 (25)	-10 (-25)	10 (25)	0.1 (0.25)
STD820	400 (1000)	-400 (-1000)	400 (1000)	1.0 (2.5)
Model	psi (bar)	psi (bar)	psi (bar)	psi (bar)
STD830	100 (7.0)	-100 (-7.0)	100 (7.0)	1 (0.07)
STD870	3000 (210)	-100 (-7.0)	3000 (210)	30 (2.1)

Description

The SmartLine family of gauge pressure, differential pressure, and absolute pressure transmitters is 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 resulting in the best total performance available. This level of performance allows the ST 800 to replace virtually any competitive transmitter available today.

Unique Indication/Display Options

The ST 800 modular design accommodates a basic alphanumeric LCD display or a unique advanced graphics LCD display with many unparalleled features.

Basic Alphanumeric LCD Display Features

- Modular (may be added or removed in the field)
- 0, 90,180, & 270 degree position adjustments
- Configurable (HART only) and standard (Pa, KPa, MPa, KGcm², Torr, ATM, inH₂O, mH₂O, bar, mbar, inH₂O, inHG, FTH₂O, mmH₂O, mm HG, & psi) measurement units
- 2 Lines 16 Characters (4.13H x 1.83W mm)
- Square root output indication (✓)

Advanced Graphics LCD Display Features

- Modular (may be added or removed in the field)
- 0, 90, 180, & 270 degree position adjustments
- Standard and custom measurement units available.
- Up to eight display screens with 3 formats are possible
(Large PV with Bar Graph or PV with Trend Graph)
- Configurable screen rotation timing (1 to 30 sec)
- Display Square Root capabilities may be set separately from the 4-20mA dc output signal
- Unique "Health Watch" indication provides instant visibility of diagnostics
- Multiple language capability. (EN, DE, FR, IT, ES, RU, TR, CN & JP)

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**

Configuration Tools

Integral Three Button Configuration Option

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

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

Honeywell's SCT 3000 Configuration Toolkit provides an easy way to configure Digitally Enhanced (DE) instruments using a personal computer as the configuration interface. Field Device Manager (FDM) Software and FDM Express are also available for managing HART & Fieldbus device configurations.

System Integration

- SmartLine communications protocols all meet the most current published standards for HART/DE/Fieldbus.
- Integration with Honeywell's Experion PKS offers the following unique advantages.
 - Transmitter messaging
 - Maintenance mode indication
 - Tamper reporting
 - FDM Plant Area Views with Health summaries
 - All ST 800 units are Experion tested to provide the highest level of compatibility assurance

Modular Design

To help contain maintenance & inventory costs, all ST 800 transmitters are modular in design supporting the user's ability to replace meter bodies, add indicators or change electronic modules without affecting overall performance or approval body certifications. Each meter body is uniquely characterized to provide in-tolerance performance over a wide range of application variations in temperature and pressure and due to the Honeywell advanced interface, electronic modules may be swapped with any electronics module without losing in-tolerance performance characteristics.

Modular Features

- Meter body replacement
- Exchange/replace electronics/comms modules*
- Add or remove integral indicators*
- Add or remove lightning protection (terminal connection)*

* Field replaceable in all electrical environments (including IS) except flameproof without violating agency approvals.

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

Plugged Impulse Line Detection:

STD800 models are offered with a PILD option which provides indication of a plugged impulse line or process connection. When used in conjunction with a basic or advanced display, a non-critical diagnostic indication appears on the integral display. For units without an integral display, an indication can be seen via the host or hand held device when HART Protocol is utilized.

Dual/Triple Calibration:

STD800 models are optionally offered with multiple calibrations. In lieu of a standard factory calibration, units can be supplied with 1, 2, or 3 customer specified calibrations. These calibrations are stored in the meter body and provide users with factory calibrated performance at up to three different calibrated ranges. This increases application flexibility without requiring any costly recalibration or additional inventory.

Performance Specifications

Reference Accuracy (conformance to +/-3 Sigma)

Table 1

Model	URL	LRL	Min Span	Maximum Turndown Ratio	Stability (% URL/ Yr for ten years)	Reference Accuracy ^{1,2} (% Span) Std/Opt
STD810	10 in H ₂ O/25mbar	-10 in H ₂ O/-25mbar	0.1 in H ₂ O/0.25mbar	100:1	0.015	0.0350%
STD820	400 in H ₂ O/1000mbar	-400 in H ₂ O/-1000mbar	1 in H ₂ O/2.5mbar	400:1	0.010	0.0375 / 0.025%
STD830	100 psi/7.0 bar	-100 psi/-7.0 bar	1 psi/0.07 bar	100:1	0.025	0.05 / 0.0325%
STD870	3000 psi/210 bar	-100 psi/-7.0 bar	30 psi/2.1 bar	100:1	0.010	0.05 / 0.035%

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

Accuracy at Specified Span, Temperature and Static Pressure Effects: (conformance to +/-3)

TABLE II

		Accuracy ^{1,2} (% of Span)			Temperature Effect (% Span/50°F)		Static Line Pressure Effect (% Span/1000psi) ³				
		Model	URL	For Spans Below	A	B	C	D	E	F	G
Standard Accuracy	STD810	10 in H ₂ O/25mbar		10:1	0.010	0.025	1 / 2.5	0.070	0.040	0.050	0.075
	STD820	400 in H ₂ O/1000mbar		16:1	0.0125	0.025	25 / 62.5	0.025	0.007	0.080	0.007
	STD830	100 psi/7.0 bar		6.7:1	0.0125	0.0375	15 / 1.03	0.025	0.010	0.075	0.0075
	STD870	3000 psi/210 bar		15:1			200 / 14		0.006		
High Accuracy Option	STD820	400 in H ₂ O/996.4mbar		16:1	0.0125	0.0125	25 / 62.5	0.025	0.007	0.080	0.007
	STD830	100 psi/7 bar		6.7:1	0.0125	0.020	15 / 1.03	0.025	0.010	0.075	0.0075
	STD870	3000 psi/206.8 bar		15:1	0.0150	0.020	200 / 14		0.006		
				Turn Down Effect $\pm \left[A + B \left(\frac{C}{Span} \right) \right]$ % Span	Temp Effect $\pm \left[D + E \left(\frac{URL}{Span} \right) \right]$ % Span per 28°C (50°F)	Static Effect $\pm \left[F + G \left(\frac{URL}{Span} \right) \right]$ % Span per 1000 psi					

$$\text{Total Performance} = \pm \sqrt{(\text{Accuracy})^2 + (\text{Temp Effect})^2 + (\text{Static Line Pressure Effect})^2}$$

Standard Accuracy Total Performance Examples: (5:1 Turndown, up to 50 °F shift & up to 1000 psi Static Pressure³)

Model	Total Performance	Model	Total Performance
STD810 @ 2" H ₂ O	0.50% of span	STD830 @ 20 psi	0.144 % of span
STD820 @ 80" H ₂ O	0.135% of span	STD870 @ 600 psi	0.135 % of span

Typical Calibration Frequency: Calibration verification is recommended every four (4) years

Notes:

1. Terminal based Accuracy – Includes combined effects of linearity, hysteresis and repeatability. Analog output adds 0.005% of span
2. For zero based spans and reference conditions of 25 °C (77 °F). 0 psig static pressure. 10 to 55% RH, and 316 Stainless Steel barrier diaphragm.
3. STD810 includes only zero shift with static pressure. Results are % of span/25 psig.

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 STD800	25±1	77±2	-40 to 85	-40 to 185	-40 to 85	-40 to 185	-55 to 120	-67 to 248				
Meter Body Temperature ² STD810, 820, 830, 870	25±1	77±2	-40 to 110 ¹	-40 to 230 ¹	-40 to 125	-40 to 257	-55 to 120	-67 to 248				
Humidity %RH	10 to 55		0 to 100		0 to 100		0 to 100					
Vac. Region – Min. Pressure All Models Except STD810 mmHg absolute inH ₂ O absolute	Atmospheric		25	13	2 (short term) ³ 1 (short term) ³							
Supply Voltage Load Resistance	10.8 to 42.4 Vdc at terminals (IS versions limited to 30 Vdc) 0 to 1,440 ohms (as shown in Figure 2)											
Maximum Allowable Working Pressure (MAWP) ^{4,5} (ST 800 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)	<p>Standard: STD810 = 50 psi, 3.45 bar STD820, STD830 and STD870 = 4,500 psi, 310.2 bar</p> <p>Optional: STD820, STD830, STD870 = 6,000 psi, 420 bar Static Pressure Limit = Maximum Allowable Working Pressure (MAWP) = Overpressure Limit for ST 800 Differential Pressure Transmitters</p>											

¹ LCD Display operating temperature -20°C to +70°C . Storage temperature -30°C to 80°C.

² Silicone 704 minimum temperature rating is 0°C (32°F). NEOBEE M-20 minimum temperature rating is -15°C (5°F).

NEOBEE® is a registered trademark of Stepan Company

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

⁴ MAWP applies for temperatures -40 to 125°C. Static Pressure Limit is de-rated to 3,000 psi for -26°C to -40°C. for all models except STD810. Use of graphite o-rings de-rates transmitter to 3,625 psi. Use of 1/2." process adaptors with graphite o-rings de-rates transmitter to 3,000 psi.

⁵ Consult factory for MAWP of ST 800 transmitters with CRN approval.

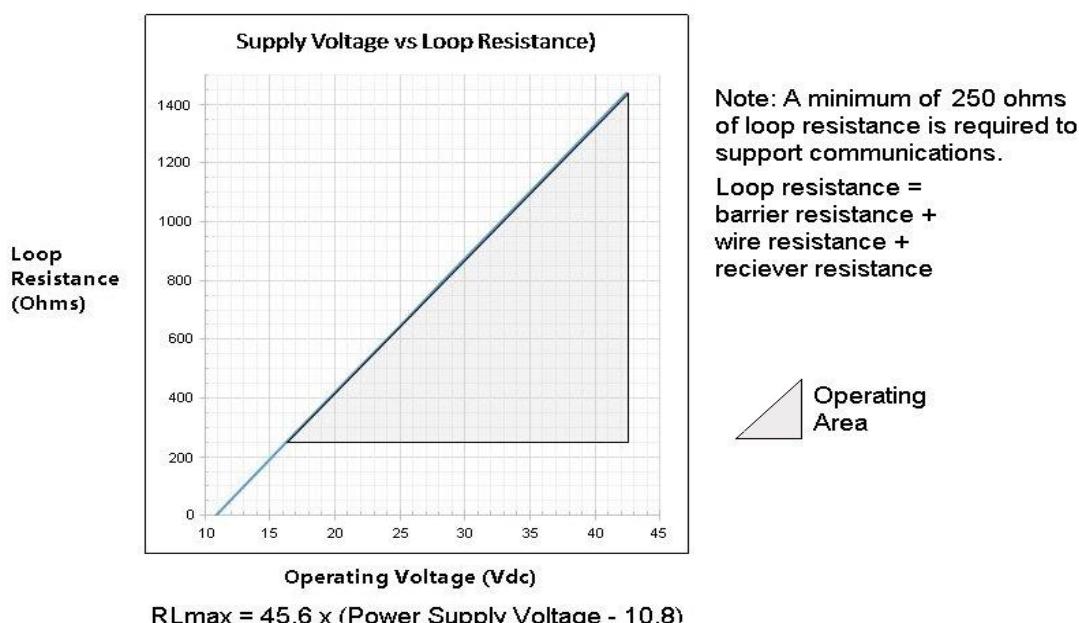


Figure 2 - Supply voltage and loop resistance chart & calculations

Performance Under Rated Conditions – All Models

Parameter	Description	
Analog Output Digital Communications:	Two-wire, 4 to 20 mA (HART & DE Transmitters only) Honeywell DE, HART 7 protocol or FOUNDATION Fieldbus ITK 6.0.1 compliant All transmitters, irrespective of protocol have polarity insensitive connection.	
HART & DE Output Failure Modes (NAMUR for DE Units requires selecting display and configuration buttons or factory configuration)	Honeywell Standard: Normal Limits: 3.8 – 20.8 mA Failure Mode: ≤ 3.6 mA and ≥ 21.0 mA	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)	HART or DE: 2.5 sec.	Foundation Fieldbus: Host dependant
Response Time (delay + time constant)	DE/HART Analog Output 90mS	FOUNDATION Fieldbus 150mS (Host Dependant)
Damping Time Constant	HART: Adjustable from 0 to 32 seconds in 0.1 increments. Default: 0.50 seconds DE: Discrete values 0, .16, .32, .48, 1, 2, 4, 8, 16, 32 seconds. Default: 0.48 seconds	
Vibration Effect ST 820, ST 830, ST 870	Less than +/- 0.1% of URL w/o damping Per IEC60770-1 field or pipeline, high vibration level (10-2000Hz: 0.21 displacement/3g max acceleration)	
Electromagnetic Compatibility	IEC 61326-3-1	
Lightning Protection Option	Leakage Current: 10uA max @ 42.4VDC 93C Impulse rating: 8/20uS 5000A (>10 strikes) 10000A (1 strike min.) 10/1000uS 200A (> 300 strikes)	

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

Parameter	Description
Barrier Diaphragms Material	316L SS, Hastelloy® C-276 ² , Monel® 400 ³ , Tantalum, Gold-plated 316L SS, Gold-plated Hastelloy® C-276, Gold-plated Monel® 400
Process Head Material	316 SS ⁴ , Carbon Steel (Zinc-plated) ⁵ 316 SS ⁴ , Carbon Steel (Zinc-plated) ⁵ , Hastelloy C-276 ⁶ , Monel 400 ⁷
Vent/Drain Valves & Plugs ¹	316 SS ⁴ , Hastelloy C-276 ² , Monel 400 ⁷
Head Gaskets	Glass-filled PTFE standard. Viton® and graphite are optional.
Meter Body Bolting	Carbon Steel (Zinc plated) standard. Options include 316 SS, NACE A286 SS bolts, Monel K500, Super Duplex and B7M.
Optional Adapter Flange and Bolts	Adapter Flange materials include 316 SS, Hastelloy C-276 and Monel 400. Bolt material for flanges is dependent on process head bolts material chosen. Standard adaptor seal material is glass-filled PTFE. Viton and graphite are optional.
Mounting Bracket	Carbon Steel (Zinc-plated) or 304 Stainless Steel or 316 Stainless Steel
Fill Fluid	Silicone Oil 200, Silicone Oil 704, Inert Fluorinated Oil CTFE and NEOBEE® M-20 (Note that STD810 is only available with Silicone Oil 200 and NEOBEE® M-20)
Electronic Housing	Pure Polyester Powder Coated Low Copper (<0.4%)-Aluminum. Meets NEMA 4X, IP66, & P67. All stainless steel housing is optional.
Mounting	Can be mounted in virtually any position using the standard mounting bracket. Bracket is designed to mount on 2-inch (50 mm) vertical or horizontal pipe. See Figure 3.
Process Connections	1/4- NPT or 1/2- NPT with adapter (meets DIN requirements)
Wiring	Accepts up to 16 AWG (1.5 mm diameter).
Dimensions	See Figure 4.
Net Weight	8.3 pounds (3.8 Kg) with Aluminum Housing

¹ Vent/Drains are sealed with Teflon®

² Hastelloy C-276 or UNS N10276

³ Monel 400 or UNS N04400

⁴ Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS.

⁵ Carbon Steel heads are zinc-plated and not recommended for water service due to hydrogen migration. For that service, use 316 stainless steel wetted Process Heads.

⁶ Hastelloy C-276 or UNS N10276. Supplied as indicated or as Grade CW12MW, the casting equivalent of Hastelloy C-276

⁷ Monel 400 or UNS N04400. Supplied as indicated or as Grade M30C, the casting equivalent of Monel 400

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)

Foundation Fieldbus (FF)

Power Supply Requirements

Voltage: 9.0 to 32.0Vdc at terminals

Steady State Current: 17.6mAdc

Software Download Current: 27.4mAdc

Available Function Blocks

Block Type	Qty	Execution Time
Resource	1	n/a
Transducer	1	n/a
Diagnostic	1	n/a
Analog Input	1*	30 ms
PID w/Autotune	1	45 ms
Integrator	1	30 ms
Signal Char (SC)	1	30 ms
LCD Display	1	n/a
Flow Block	1	30 ms
Input Selector	1	30 ms
Arithmetic	1	30 ms

* AI block may have two (2) additional instantiations.

All available function blocks adhere to FOUNDATION Fieldbus standards. PID blocks support ideal & robust PID algorithms with full implementation of Auto-tuning.

Link Active Scheduler

Transmitters can perform as a backup Link Active Scheduler and take over when the host is disconnected. Acting as a LAS, the device ensures scheduled data transfers typically used for the regular, cyclic transfer of control loop data between devices on the Fieldbus.

Number of Devices/Segment

Entity IS model: 6 devices/segment

Schedule Entries

18 maximum schedule entries

Number of VCR's: 24 max

Compliance Testing: Tested according to ITK 6.0.1

Software Download

Utilizes Class-3 of the Common Software Download procedure as per FF-883 which allows the field devices of any manufacturer to receive software upgrades from any host.

Honeywell Digitally Enhanced (DE)

DE is a Honeywell proprietary protocol which provides digital communications between Honeywell DE enabled field devices and Hosts.

Power Supply

Voltage: 10.8 to 42.4Vdc at terminals

Load: Maximum 1440 ohms See figure 2

Standard Diagnostics

ST 800 top level diagnostics are reported as either critical or non-critical and readable via the DD/DTM tools or integral display as shown below.

Critical Diagnostics		
HART DD/DTM tools	Advanced Display	Basic Display
Electronic Module DAC Failure	Electronics Module fault	Electronics Module fault
Meter Body NVM Corrupt	Meterbody fault	Meterbody fault
Config Data Corrupt	Electronics Module fault	Electronics Module fault
Electronic Module Diag Failure	Electronics Module fault	Electronics Module fault
Meter Body Critical Failure	Meterbody fault	Meterbody fault
Sensor Comm Timeout	Meterbody Comm fault	Meterbody Comm fault

Non-Critical Diagnostics		
HART DD/DTM tools	Advanced Display	Basic Display
Display Failure	n/a	n/a
Electronic Module Comm Failure	n/a	n/a
Meter Body Excess Correct	Zero Correct (OK or EXCESSIVE) Span Correct (OK or EXCESSIVE)	n/a
Sensor Over Temperature	Meterbody Temp (OK, OVER TEMP)	n/a
Fixed Current Mode	Analog Out mode (Fixed or Normal)	n/a
PV Out of Range	Primary PV (OK or OVERLOAD)	n/a
No Factory Calibration	Factory Cal (OK, NO FACTORY CAL)	n/a
No DAC Compensation	DAC Temp Comp (OK, NO COMPENSATION)	n/a
LRV Set Error – Zero Config Button	n/a	n/a
URV Set Error – Span Config Button	n/a	n/a
AO Out of Range	n/a	n/a
Loop Current Noise	n/a	n/a
Meter Body Unreliable Comm	Meterbody Comm (OK, SUSPECT)	n/a
Tamper Alarm	n/a	n/a
No DAC Calibration	n/a	n/a
Sensor Supply Voltage Low	Supply Voltage (OK, LOW, or HIGH)	n/a

Refer to ST 800 diagnostics tech note for additional level diagnostics.

Other Certification Options

Materials

- o NACE MRO175, MRO103, ISO15156

Approval Certifications:

AGENCY	TYPE OF PROTECTION	COMM. OPTION	FIELD PARAMETERS	AMBIENT TEMP (Ta)
FM Approvals™ USA	Explosionproof: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G; T6..T5 Class I, Zone 0/1, AEx db IIC T6..T5 Ga/Gb Class II, Zone 21, AEx tb IIIC T95° Db	All	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
	Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4 Class I, Zone 0, AEx ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
		Foundation Fieldbus	Note 2b	-50 °C to 70°C
	Nonincendive: Class I, Division 2, Groups A, B, C, D locations, T4 Class I, Zone 2, AEx nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
	Enclosure: Type 4X/ IP66/ IP67	All	All	-
Canadian Standards Association (CSA) USA and Canada	Explosion Proof: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G; T6..T5 Class I Zone 1 AEx db IIC T6..T5 Ga/Gb Ex db IIC T6..T5 Ga/Gb Zone 22 AEx tb IIIC T95° Db Ex tb IIIC T95° Db	All	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
	Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4 Class I Zone 0 AEx ia IIC T4 Ga Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
		Foundation Fieldbus	Note 2b	-50 °C to 70°C
	Nonincendive: Class I, Division 2, Groups A, B, C, D; T4 Class I Zone 0 AEx nA IIC T4 Gc Ex nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
	Enclosure: Type 4X/ IP66/ IP67	All	All	-

Approval Certifications: (Continued)

ATEX	Flameproof: II 1/2 G Ex db IIC T6..T5 Ga/Gb II 2 D Ex tb IIIC T95° Db	All	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
	Intrinsically Safe: II 1 G Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
		Foundation Fieldbus	Note 2b	-50 °C to 70°C
	Nonincendive: II 3 G Ex nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
	Enclosure: IP66/ IP67	All	All	-
IECEx World	Flameproof : Ex db IIC T6..T5 Ga/Gb Ex tb IIIC Db T 95°C Db	All	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
	Intrinsically Safe: Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
		Foundation Fieldbus	Note 2b	-50 °C to 70°C
	Nonincendive: Ex nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
	Enclosure: IP66/ IP67	All	All	-
SAEx South Africa	Flameproof : Ex d IIC Ga/Gb T4 Ex tb IIIC Db T 95°C	All	Note 1	-50 °C to 85°C
	Intrinsically Safe: Ex ia IIC Ga T4 FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
		Foundation Fieldbus	Note 2b	-50 °C to 70°C
	Nonincendive: Ex nA IIC Gc T4	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
	Enclosure: IP66/ IP67	All	All	-
INMETRO Brazil	Flameproof: Ex db IIC T6..T5 Ga/Gb Ex tb IIIC T 95°C Db	All	Note 1	50 °C to 85°C
	Intrinsically Safe: Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	50 °C to 70°C
		Foundation Fieldbus	Note 2b	50 °C to 70°C
	Nonincendive: Ex nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
	Enclosure : IP 66/67	All	All	-

Approval Certifications: (Continued)

NEPSI China	Flameproof: Ex d IIC Ga/Gb T4 Ex tb IIIC Db T 85°C	All	Note 1	-50 °C to 85°C
	Intrinsically Safe: Ex ia IIC Ga T4 FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
		Foundation Fieldbus	Note 2b	-50 °C to 70°C
	Nonincendive: Ex nA IIC Gc T4	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
	Enclosure : IP 66/67	All	All	-
EAC Russia, Belarus and Kazakhstan	Flameproof: 1 Ex d IIC Ga/Gb T4 Ex tb IIIC Db T 85°C	All	Note 1	-50 °C to 85°C
	Intrinsically Safe: 0 Ex ia IIC Ga T4 FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
		Foundation Fieldbus	Note 2b	-50 °C to 70°C
	Enclosure : IP 66/67	All	All	
KOSHA Korea	Flameproof : Ex d IIC T6..T5 Ex tD T 95°C	All	Note 1	T6: Ta= -50 °C to 65°C T5: Ta= -50 °C to 85°C
	Intrinsically Safe: Ex ia IIC T4	4-20 mA / DE/ HART	Note 2a	Ta= -50 °C to 70°C
		Foundation Fieldbus	Note 2b and 2c	Ta= -50 °C to 70°C
	Enclosure: IP66/ IP67	All	All	-

Notes:

1. Operating Parameters:

Voltage= 11 to 42 V DC Current= 4-20 mA Normal
 = 10 to 30 V (FF) = 30 mA (FF)

2. Intrinsically Safe Entity Parameters

a. Analog/ DE/ HART Entity Values:

Vmax= Ui = 30V Imax= li= 105mA Ci = 4.2nF Li = 984 uH Pi = 0.9W

Transmitter with Terminal Block Revision E or Later

Vmax= Ui = 30V Imax= li= 225mA Ci = 4.2nF Li = 0 Pi = 0.9W

Note : Transmitter with Terminal Block Revision E or later

The revision is on the label that is on the module. There will be two lines of text on the label:

- First is the Module Part #: 50049839-001 or 50049839-002
- Second line has the supplier information, along with the REVISION:

XXXXXX-XXXX, THE "X" is production related, THE POSITION of the "E" IS THE REVISION.

b. Foundation Fieldbus- Entity Values

Vmax= Ui = 30V Imax= Ii= 180mA Ci = 0nF Li = 984 uH Pi = 1W

Transmitter with Terminal Block Revision F or Later)

Vmax= Ui = 30V Imax= Ii= 225mA Ci = 0nF Li = 0 Pi = 1 W

FISCO Field Device Imax= Ii= 380 mA Ci = 0nF Li = 0 Pi = 5.32 W

Vmax= Ui = 17.5V

Note : Transmitter with Terminal Block Revision F or later

The revision is on the label that is on the module. There will be two lines of text on the label:

- First is the Module Part #: 50049839-003 or 50049839-004
- Second line has the supplier information, along with the REVISION:

XXXXXX-XXXX, THE "X" is production related, THE POSITION of the "E" IS THE REVISION.

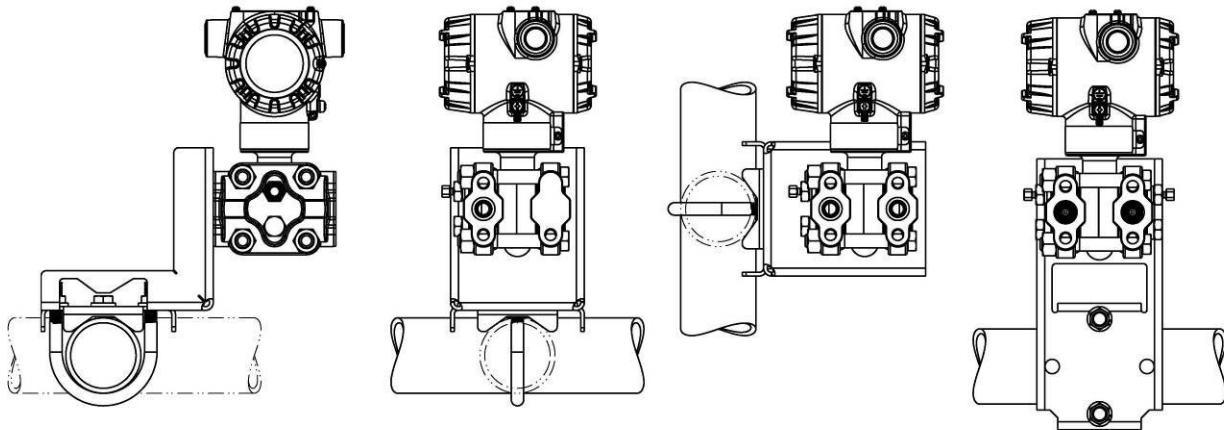
Approval Certifications: (Continued)

Marine Certificates	This certificate defines the certifications covered for the ST 800 Pressure Transmitter family of products, including the SMV 800 Smart Multivariable Transmitter. It represents the compilation of the five certificates Honeywell currently has covering the certification of these products into marine applications. For ST 800 Smart Pressure Transmitter and SMV800 Smart Multivariable Transmitter																
	American Bureau of Shipping (ABS) - 2009 Steel Vessel Rules 1-1-4/3.7, 4-6-2/5.15, 4-8-3/13 & 13.5, 4-8-4/27.5.1, 4-9-7/13. Certificate number: 04-HS417416-PDA																
	Bureau Veritas (BV) - Product Code: 389:1H. Certificate number: 12660/B0 BV																
	Det Norske Veritas (DNV) - Location Classes: Temperature D, Humidity B, Vibration A, EMC B, Enclosure C. For salt spray exposure; enclosure of 316 SST or 2-part epoxy protection with 316 SST bolts to be applied. Certificate number: A-11476																
	Korean Register of Shipping (KR) - Certificate number: LOX17743-AE001																
	Lloyd's Register (LR) - Certificate number: 02/60001(E1) & (E2)																
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.																
MEASUREMENT INSTRUMENTS DIRECTIVE (MID) 2004/ 22/ EC	<p>Certificate Issued by NMI Certin B.V. Mechanical Class: M3 Electromagnetic Environment: E3 Ambient Temperature Range: -25 °C to + 55 °C</p> <table border="1"> <thead> <tr> <th>Unit</th><th>Custom Calibration</th></tr> </thead> <tbody> <tr> <td>STD820</td><td>0 to 1000 mBar</td></tr> <tr> <td>STD830</td><td>0 to 7 Bar</td></tr> <tr> <td>STA84L</td><td>0 to 35 Bar A</td></tr> <tr> <td>STG84L</td><td>0 to 35 Bar</td></tr> <tr> <td>STD870</td><td>0 to 100 Bar</td></tr> <tr> <td>STA87L</td><td>0 to 100 Bar A</td></tr> <tr> <td>STG87L</td><td>0 to 100 Bar</td></tr> </tbody> </table>	Unit	Custom Calibration	STD820	0 to 1000 mBar	STD830	0 to 7 Bar	STA84L	0 to 35 Bar A	STG84L	0 to 35 Bar	STD870	0 to 100 Bar	STA87L	0 to 100 Bar A	STG87L	0 to 100 Bar
Unit	Custom Calibration																
STD820	0 to 1000 mBar																
STD830	0 to 7 Bar																
STA84L	0 to 35 Bar A																
STG84L	0 to 35 Bar																
STD870	0 to 100 Bar																
STA87L	0 to 100 Bar A																
STG87L	0 to 100 Bar																

Mounting & Dimensional Drawings

Reference Dimensions: millimeters
inches

Mounting Configurations



Dimensions

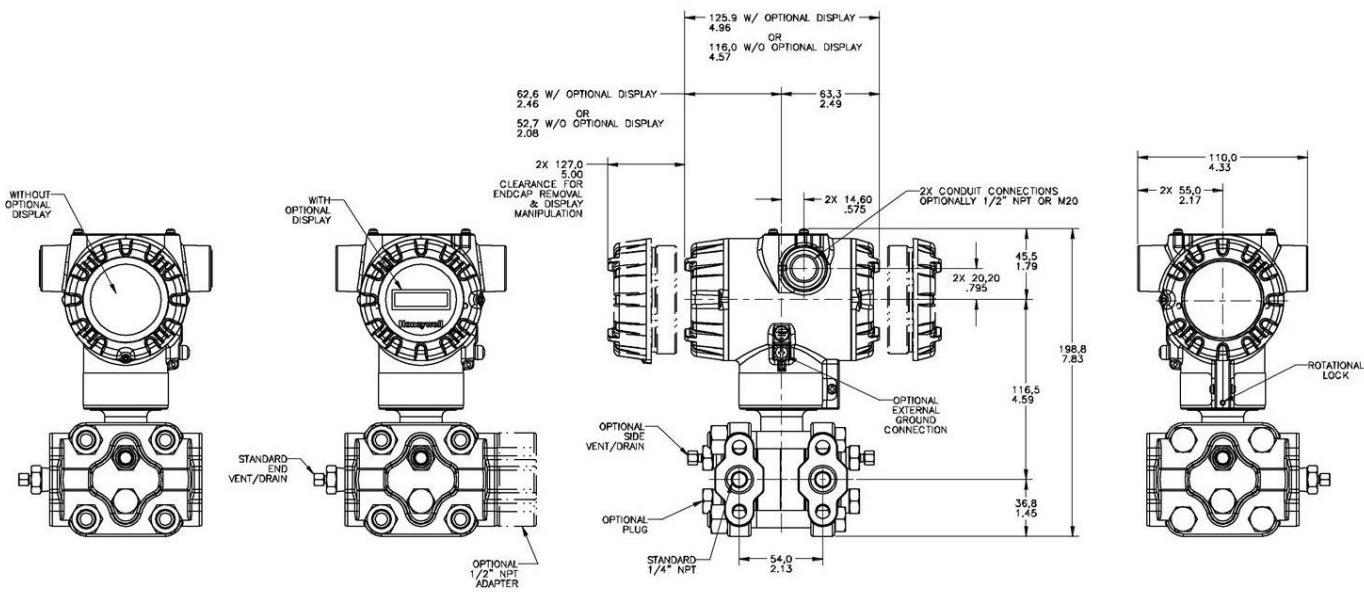


Figure 4 – Typical mounting dimensions of STD810, STD820, STD830 & STD870 for reference

Model Selection Guide

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

Model STD800 Differential Pressure Transmitter

Model Selection Guide:
34-ST-16-82 Issue 20

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

Key	I	II	III	IV	V	VI	VII	VIII	IX
STD	-----	-----	-----	-----	-----	-----	-----	-----	0000

KEY NUMBER	URL	LRL	Max Span	Min Span	Units
Measurement Range	10 (25.0)	-10 (-25.0)	10 (25)	0.1 (0.25)	" H ₂ O (mbar)
	400/(1000)	-400/(-1000)	400/(1000)	1.0 (2.5)	" H ₂ O (mbar)
	100 (7.0)	-100 (-7.0)	100 (7.0)	1 (0.07)	psi (bar)
	3000 (210)	-100 (-7.0)	3000 (210)	30 (2.1)	psi (bar)

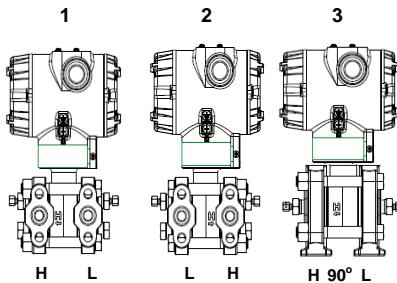
Selection	Availability
STD810	↓
STD820	↓
STD830	↓
STD870	↓

TABLE I METER BODY SELECTIONS							
	Process Head Material	Diaphragm Material					
a. Process Wetted Heads & Diaphragm Materials	Plated Carbon Steel	316L Stainless Steel Hastelloy® C-276 Monel® 400 Tantalum Gold Plated Stainless Steel Gold Plated Hastelloy C-276 Gold Plated Monel 400					
		316L Stainless Steel Hastelloy C-276 Monel 400 Tantalum Gold Plated Stainless Steel Gold Plated Hastelloy C-276 Gold Plated Monel 400					
		Hastelloy C-276					
		Tantalum Gold Plated Hastelloy C-276					
		Monel 400					
	316 Stainless Steel	Monel 400 Gold Plated Monel 400					
		Hastelloy C-276					
		Tantalum Gold Plated Hastelloy C-276					
		Monel 400					
b. Fill Fluid	Silicone Oil 200 Fluorinated Oil CTFE Silicone Oil 704 NEOBEE® M-20						
c. Process Connection	None 1/2" NPT female	None (1/4" NPTF female thread Std) Materials to Match Head & Head Bolt Materials Selections ¹					
d. Bolt/Nut Materials	Carbon Steel 316 SS Grade 660 (NACE A286) with NACE 304 SS Nuts Grade 660 (NACE A286) Bolts & Nuts Monel K500 Super Duplex B7M						
e. Vent/Drain Type/Location	Head Type	Vent Type	Location	Vent Material			
	Single Ended	None	None	None			
	Single Ended	Standard Vent	Side	Matches Head Material ¹			
	Single Ended	Center Vent	Side	Stainless Steel Only			
	Dual Ended	Standard Vent	End	Matches Head Material ¹			
	Dual Ended	Center Vent	End	Stainless Steel Only			
	Dual Ended	Std Vent/Plug	Side/End	Matches Head Material ¹			
f. Gasket Material	Teflon® or PTFE (Glass Filled) Viton® or Fluorocarbon Elastomer Graphite						
g. Static Pressure	Standard Static Pressure - 4500 psig (310 bar) except STD810: 50 psi (3.5 bar) High Pressure 6000 psi (415 bar)						

A	*	*	*	*
B	*	*	*	*
C	*	*	*	*
D	a	a	a	
1	*	*	*	*
2	*	*	*	*
3	*	*	*	*
E	*	*	*	*
F	*	*	*	*
G	*	*	*	*
H	a	a	a	
4	*	*	*	*
5	*	*	*	*
6	*	*	*	*
J	*	*	*	*
K	a	a	a	
7	*	*	*	*
L	a	a	a	
8	a	a	a	
1	*	*	*	*
2	*	*	*	*
3	*	*	*	*
4	*	*	*	*
A	*	*	*	*
H	*	*	*	*
C	*	*	*	*
S	*	*	*	*
N	*	*	*	*
K	p	p	p	p
M	p	p	p	p
D	p	p	p	p
B	*	*	*	*

1	*	*	*	*
2	*	*	*	*
3	t	t	t	t
4	*	*	*	*
5	t	t	t	t
6	*	*	*	*
A	*	*	*	*
B	*	*	*	*
C	*	*	*	*
S	*	*	*	*
H	k	k	k	k

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



STD870	—	—	—	—
STD830	—	—	—	—
STD820	—	—	—	—
STD810	—	—	—	—

TABLE II

Meter Body & Connection Orientation		
Head/Connect Orientation	Standard	High Side Left, Low Side Right ² / Std Head Orientation
	Reversed	Low Side Left, High Side Right ² / Std Head Orientation
	90/Standard	High Side Left, Low Side Right ² / 90° Head Rotation

TABLE III

Agency Approvals (see data sheet for Approval Code Details)	
Approvals	No Approvals Required
	FM Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof
	CSA Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof
	ATEX Explosion proof, Intrinsically Safe & Non-incendive
	IECEx Explosion proof, Intrinsically Safe & Non-incendive
	SAEx/CCoE Explosion proof, Intrinsically Safe & Non-incendive
	INMETRO Explosion proof, Intrinsically Safe & Non-incendive
	NEPSI Explosion proof, Intrinsically Safe & Non-incendive
	KOSHA Explosion proof, Intrinsically Safe & Non-incendive
	EAC Customs Union(Russia,Belarus,Kazakhstan)Ex Approval, Flame prc

0	*	*	*	*
A	*	*	*	*
B	*	*	*	*
C	*	*	*	*
D	*	*	*	*
E	*	*	*	*
F	*	*	*	*
G	*	*	*	*
H	*	*	*	*
I	*	*	*	*

TABLE IV

TRANSMITTER ELECTRONICS SELECTIONS			
	Material	Connection	Lightning Protection
a. Electronic Housing Material & Connection Type	Polyester Powder Coated Aluminum	1/2 NPT	None
	Polyester Powder Coated Aluminum	M20	None
	Polyester Powder Coated Aluminum	1/2 NPT	Yes
	Polyester Powder Coated Aluminum	M20	Yes
	316 Stainless Steel (Grade CF8M)	1/2 NPT	None
	316 Stainless Steel (Grade CF8M)	M20	None
	316 Stainless Steel (Grade CF8M)	1/2 NPT	Yes
	316 Stainless Steel (Grade CF8M)	M20	Yes
b. Output/Protocol	Analog Output		Digital Protocol
	4-20mA dc		HART Protocol
	4-20mA dc		DE Protocol
c. Customer Interface Selections	none		Foundation Fieldbus
c. Customer Interface Selections	Indicator	Ext Zero, Span & Config Buttons	Languages
	None	None	None
	None	Yes (Zero/Span Only)	None
	Basic	None	English
	Basic	Yes	English
	Advanced	None	EN, GE, FR, IT, SP, RU, TU
	Advanced	Yes	EN, GR, FR, IT, SP, RU, TU
	Advanced	None	EN, CH, JP
	Advanced	Yes	EN, CH, JP

A __	*	*	*	*
B __	*	*	*	*
C __	*	*	*	*
D __	*	*	*	*
E __	*	*	*	*
F __	*	*	*	*
G __	*	*	*	*
H __	*	*	*	*

_ H _	*	*	*	*
_ D _	u	u	u	u
_ F _	*	*	*	*

-- 0	*	*	*	*
-- A	f	f	f	f
-- B	*	*	*	*
-- C	*	*	*	*
-- D	*	*	*	*
-- E	*	*	*	*
-- H	*	*	*	*
-- J	*	*	*	*

TABLE V

CONFIGURATION SELECTIONS			
Diagnostics			
Standard Diagnostics Advanced Diagnostics (Above with Plugged Impulse Detection PILD)			
	Write Protect	Fail Mode	High & Low Output Limits ³
b. Output Limit, Failsafe & Write Protect Settings	Disabled	High> 21.0mAdc	Honeywell Std (3.8 - 20.8 mAdc)
	Disabled	Low< 3.6mAdc	Honeywell Std (3.8 - 20.8 mAdc)
	Enabled	High> 21.0mAdc	Honeywell Std (3.8 - 20.8 mAdc)
	Enabled	Low< 3.6mAdc	Honeywell Std (3.8 - 20.8 mAdc)
	Enabled	N/A	Fieldbus or Profibus
	Disabled	N/A	Fieldbus or Profibus
c. General Configuration	Factory Standard		
	Custom Configuration (Unit Data Required from customer)		

1 __	*	*	*	*
2 __	*	*	*	*

_ 1 _	f	f	f	f
_ 2 _	f	f	f	f
_ 3 _	f	f	f	f
_ 4 _	f	f	f	f
_ 5 _	g	g	g	g
_ 6 _	g	g	g	g
_ S _	*	*	*	*
_ C _	*	*	*	*

² Left side/Right side as viewed from the customer connection perspective³ NAMUR Output Limits 3.8 - 20.5mAdc can be configured by the customer or select custom configuration Table Vc

TABLE VI CALIBRATION & ACCURACY SELECTIONS			
a. Accuracy and Calibration	Accuracy	Calibrated Range	Calibration Qty
	Standard	Factory Std	Single Calibration
	Standard	Custom (Unit Data Required)	Single Calibration
	Standard	Custom (Unit Data Required)	Dual Calibration
	Standard	Custom (Unit Data Required)	Triple Calibration
	High Accuracy	Factory Std	Single Calibration
	High Accuracy	Custom (Unit Data Required)	Single Calibration
	High Accuracy	Custom (Unit Data Required)	Dual Calibration
	High Accuracy	Custom (Unit Data Required)	Triple Calibration

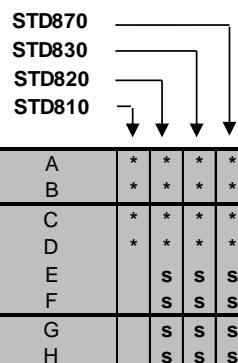


TABLE VII ACCESSORY SELECTIONS		
a. Mounting Bracket	Bracket Type	Material
	None	None
	Angle Bracket	Carbon Steel
	Angle Bracket	304 SS
	Angle Bracket	316 SS
	Marine Approved Bracket	Carbon Steel
	Marine Approved Bracket	304 SS
	Flat Bracket	Carbon Steel
	Flat Bracket	304 SS
	Flat Bracket	316 SS
b. Customer Tag	Customer Tag Type	
	No customer tag	
	One Wired Stainless Steel Tag (Up to 4 lines 26 char/line)	
c. Unassembled Conduit Plugs & Adapters	Two Wired Stainless Steel Tag (Up to 4 lines 26 char/line)	
	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) (not suitable for X-Proof applications)		
Minifast® 4 pin (M20) (not suitable for X-Proof applications)		

0 ____	*	*	*	*
1 ____	*	*	*	*
2 ____	*	*	*	*
3 ____	*	*	*	*
8 ____	*	*	*	*
4 ____	*	*	*	*
5 ____	*	*	*	*
6 ____	*	*	*	*
7 ____	*	*	*	*
-0 ____	*	*	*	*
-1 ____	*	*	*	*
-2 ____	*	*	*	*
__ A0	*	*	*	*
__ A2	n	n	n	n
__ A6	n	n	n	n
__ A7	m	m	m	m
__ A8	n	n	n	n
__ A9	m	m	m	m

TABLE VIII OTHER Certifications & Options: (String in sequence comma delimited (XX, XX, XX,...))	
Certifications & Warranty	None - No additional options Low Temperature Rating (-50 deg C min. ambient operative temperature limit) NACE MR0175; MR0103; ISO15156 (FC33338) Process wetted parts only NACE MR0175; MR0103; ISO15156 (FC33339) Process wetted and non-wetted parts Marine (DNV, ABS, BV, KR, LR) EN10204 Type 3.1 Material Traceability (FC33341) MID Approved Transmitter - Contact Tech Support for specific MID approved ranges Certificate of Conformance (F3391) Calibration Test Report & Certificate of Conformance (F3399) Certificate of Origin (F0195) FMEDA (SIL 2/3) Certification (FC33337) Over-Pressure Leak Test Certificate (1.5X MAWP) (F3392) Cert Clean for O ₂ or CL ₂ service per ASTM G93 PMI Certification ¹ Extended Warranty Additional 1 year Extended Warranty Additional 2 years Extended Warranty Additional 3 years Extended Warranty Additional 4 years Extended Warranty Additional 15 years

00	*	*	*	*
LT	w	w	w	
FG	*	*	*	*
F7	c	c	c	c
MT	d	d	d	d
FX	*	*	*	*
MD	v	v	v	
F3	*	*	*	*
F1	*	*	*	*
F5	*	*	*	*
FE	j	j	j	j
TP	*	*	*	*
OX	e	e	e	e
PM	*	*	*	
01	*	*	*	*
02	*	*	*	*
03	*	*	*	*
04	*	*	*	*
15	*	*	*	*

TABLE IX Manufacturing Specials	
Factory	Factory Identification

0000	*	*	*	*
------	---	---	---	---

MODEL RESTRICTIONS

Restriction Letter	Available Only with		Not Available with	
	Table	Selection(s)	Table	Selection(s)
k			VIII	F7, FG
			Ia	J,K,L,8
			Ic	H
			Id	B,D,M,N,S
			Ie	1, 2, 3, 5, 6
			III	B- No CRN number available
			If	C
c	1d	N,K,D,B	Ia	D,H,K,L,8
d	IV a	C, D, G, H	VIIa	1,2,3,5,6,7
e	lb	2		
f			IVb	F
g			IVb	H, D
h			Ie	4, 5, 6
			VIIa	1,2,3,4,5,6,7,8
j	IVb	H	Vb	1,2,6
m	IV a	B, D, F, H		
n	IV a	A, C, E, G		
p			III	B- No CRN number available
t			Ia	J, K, 7, L, 8
s	Ia	A,E		
u			Va	2
			VIIa	C,D,G,H
v	IV a	C, D, G, H	IVb	D,F
w	lb	1	VIII	FE
b	Select only one option from this group			

¹The 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 Gold plated and STG and STA in-line construction pressure transmitters.

FIELD INSTALLABLE REPLACEMENT PARTS

Description	Kit Number
Integrally Mounted Basic Indicator Kit (Compatible with all Electronic Modules)	50049911-501
Integrally Mounted Advanced Indicator Kit (compatible with all Electronic Modules)	50049846-501
Terminal Strip w/o Lightening Protection for HART or DE Modules	50075472-531
Terminal Strip w/Lightning Protection Kit for HART or DE Modules	50075472-532
Terminal Strip w/o Lightening Protection FFB/ <i>Profibus</i> Module	50075472-533
Terminal Strip w/Lightning Protection Kit for FFB/ <i>Profibus</i> Module	50075472-534
HART Electronics Module	50049849-501
HART Electronics Module w/connection for external configuration buttons	50049849-502
DE Electronics Module	50049849-503
DE Electronics Module w/connection for external configuration buttons	50049849-504
FFB Electronics Module Kit	50049849-507
FFB Electronics Module w/connection for external configuration buttons	50049849-508

Sales and Service

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

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or

(TAC)

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Specifications are subject to change without notice.

For more information

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

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