

Technical Information

STD700 SmartLine Differential Pressure Specification 34-ST-03-121, March 2020



Introduction

Part of the SmartLine® family of products, the STD700 models are suitable for monitoring, control and data acquisition. These products feature piezoresistive sensor technology combining pressure sensing with on chip temperature compensation capabilities providing high accuracy, stability and performance 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:

- o Accuracies up to 0.065% of span
- Stability up to 0.020% of URL per year for 10 years
- o Automatic static pressure & temperature compensation
- o Rangeability up to 100:1
- o Response times as fast as 100ms
- o Easy to use and intuitive display capabilities
- Intuitive External Zero, Span and configuration capability
- o On-board diagnostic capabilities
- Integral Dual Seal design for highest safety based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0
- o World class overpressure protection
- Full compliance to SIL 2/3 requirements.

Communications/Output Options:

o HART ® (version 7.0)



Figure 1 – STD725/735/775 Differential Pressure Transmitters feature field-proven piezoresistive sensor technology

Span & Range Limits:

Model	URL	LRL	Max Span	Min Span
	"H₂O	"H₂O	"H₂O	"H₂O
	(mbar)	(mbar)	(mbar)	(mbar)
STD725	400 (1000)	-400 (1000)	400 (1000)	4 (10)
Model	psi (bar)	psi (bar)	psi (bar)	psi (bar)
STD735	100 (7.0)	-100 (-7.0)	100 (7.0)	1 (0.07)
STD775	3000 (210)	-100 (-7.0)	3000 (210)	30 (2.1)

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)
- o Supports HART protocol variant
- 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.
- Supports Flow engineering units
- o 2 Lines 6 digits PV (9.95H x 4.20W mm) 8 Characters
- o Square root output indication ($\sqrt{}$) and Write protect Indication
- Built in Basic Device Configuration through Internal or External 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 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 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) Table 1

Model	URL	LRL	Min Span	Maximum Turndown Ratio	Stability (% URL/Year for 10 years)	Reference Accuracy ^{1,2} (% Span)
STD725	400 in H ₂ O/1000 mbar	-400 in H ₂ O/-1000 mbar	4 in H₂O/10 mbar	100:1	0.020	
STD735	100 psi/7.0 bar	-100 psi/-7.0 bar	1 psi/0.07 bar	100:1	0.020	0.065%
STD775	3000 psi/210 bar	-100 psi/-7.0 bar	30 psi/2.1bar	100:1	0.020	

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

Accuracy, Temperature and Static Pressure Effects: (Conformance to +/-3)

		TABLE II							
		Accuracy ^{1,2} (% of Span)				Span Ten Eff	ed Zero & nperature ect nn/50°F)	Span St Pressur	ed Zero & atic Line e Effect n/1000psi)
Model	URL	For Spans Below	A	В	C "H₂O / mbar	D	E	F	G
STD725	400 in H ₂ O1000mbar	16:1	0.0125	0.0525	25 / 62.5	0.050	0.025	0.100	0.020
Model	URL	For Spans below	A	В	C psi/bar	D	E	F	G
STD735	100 psi/7.0 bar	4:1	0.0125	0.0525	25 / 1.75	0.070	0.015	0.100	0.020
STD775	3000 psi/210 bar	10:1	0.0125	0.0525	300 / 21	0.070	0.015	0.100	0.020
			Turn Down Effect			Temp Effect		Static Effect	
		$\pm \left[A + B \left(\frac{C}{Span} \right) \right]$ % Span			$\pm \left[D + E \right]$ % Span per	Span Span Span Span Span Span Span Span	$\pm \left[F + G \right]$ % Span po	Span Span Span Span Span Span Span Span	

Total Performance (% of Span):

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

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

STD725 @ 80" H₂O: 0.274% of span **STD735 @ 20 psi:** 0.255 % of span **STD775 @ 600 psi:** 0.255 % 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), 0 psig static pressure, 10 to 55% RH and 316SS barrier diaphragm.

Operating Conditions – All Models

Parameter		rence dition	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	-55 to 120	-67 to 248			
Meter Body Temperature	25±1	77±2	-40 to 110	-40 to 230	-40 to 125	-40 to 257	-55 to 120	-67 to 248			
Humidity %RH	10 1	to 55	0 to 100		0 to 100		0 to 100				
Vac. Region – Min. Pressur mmHg absolute inH₂O absolute	Atmos	spheric spheric	25 13		2 (short term) ² 1 (short term) ²						
Supply Voltage Load Resistance			c at terminals is (as shown i		imited to 30 V	dc)					
Maximum Allowable Working Pressure (MAWP) ³	3,4	ı									
(ST 700 products are rated to Maxim Allowable Working Pressure. MAW depends on Approval Agency and transmitter materials of construction	Р .	osi, 310 t	oar			4,500 psi, 310 bar					

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

⁴ Consult factory for MAWP of ST 700 transmitters with CRN approval.

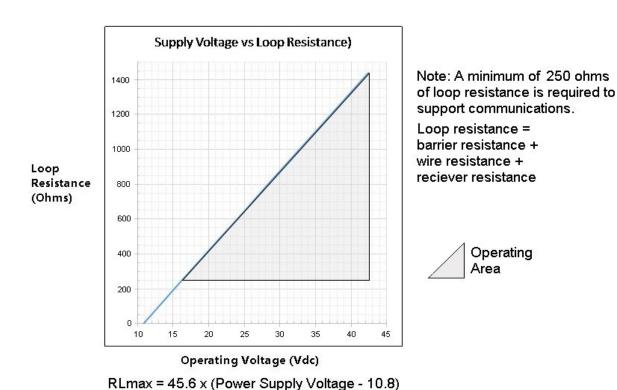


Figure 2 - Supply voltage and loop resistance chart & calculations

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

³ 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. 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.

Performance Under Rated Conditions – All Models

Parameter	Description						
Analog Output	Two-wire, 4 to 20 r	mA					
Digital Communications:	HART 7 protocol						
HART Output Failure Modes		Honey	well Standard:	NAMUR NE 43 Compliance:			
	Normal Limits:	3.8 -	- 20.8 mA	3.8 – 20.5 mA			
	Failure Mode:	≤ 3.6 m	A and ≥ 21.0 mA	≤ 3.6 mA and ≥ 21.0 mA			
Supply Voltage Effect	0.005% span per v	olt.					
Transmitter Turn on Time (includes power up & test algorithms)	2.5 sec.						
Response Time (delay + time constant)	100mS						
Damping Time Constant	Adjustable from 0	Adjustable from 0 to 32 seconds in 0.1 increments. Default: 0.50 seconds					
Vibration Effect	Less than +/- 0.1%	of URL w/o	lamping				
	Per IEC60770-1 fie acceleration)	Per IEC60770-1 field or pipeline, high vibration level (10-2000Hz: 0.21 displacement/3g max					
Electromagnetic Compatibility	IEC 61326-3-1						
Lightning Protection Option	Leakage Current: Impulse rating:	10uA max @ 8/20uS	42.4VDC 93C 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
Process Head Material	316 SS ⁴ , Carbon Steel (Zinc-plated) ⁵ , Hastelloy [®] C-276 ⁶
Vent/Drain Valves & Plugs ¹	316 SS ⁴ , Hastelloy [®] C-276 ²
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 and Super Duplex.
Optional Adapter Flange and Bolts	Adapter Flange materials include 316 SS, Hastelloy® C-276 and Super-Duplex. 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	2" Pipe, Carbon Steel (Zinc-plated), 304 Stainless Steel or 316 Stainless Steel
Fill Fluid	Silicone 200 , CTFE
Electronic Housing	Pure Polyester Powder Coated Low Copper (<0.4%)-Aluminum. Meets NEMA 4X, IP66, & IP67. 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 3.
Net Weight	8.3 pounds (3.8 Kg) with Aluminum Housing.

¹ Vent/Drains are sealed with Teflon[®]

 $^{^2~{\}rm Hastelloy^{\hbox{\scriptsize @}}}~{\rm C\text{-}276}$ or UNS N10276

 $^{^{\}rm 4}\,$ 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

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 below.

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)
FM Approvals™	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
	Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G:		T4: -50 °C to 70°C
	Class I, Zone 0, AEx ia IIC Ga Nonincendive:		
	Class I, Division 2, Groups A, B, C, D	Note 1	T4: -50 °C to 85°C
	Class I, Zone 2, AEx nA IIC Gc		
	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)

Approvai ocitiin	cations: (Continued)	1	
	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 T4 Ex tb IIIC Db T 95°C	Note 1	-50 °C to 85°C
SAEx South Africa	Intrinsically Safe: Ex ia IIC Ga T4	Note 2a	-50 °C to 70°C
	Nonincendive: Ex nA IIC Gc T4	Note 1	-50 °C to 85°C
	Enclosure: IP66/ IP67	All	-
	Flameproof: Ex db IIC T6T5 Ga/Gb Ex tb IIIC T 95°C Db	Note 1	50 °C to 85°C
INMETRO Brazil	Intrinsically Safe: Ex ia IIC T4 Ga	Note 2a	50 ℃ to 70℃
	Nonincendive: Ex nA IIC T4 Gc	Note 1	-50 °C to 85°C
	Enclosure: IP 66/67	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	-
EAC Russia, Belarus	Flameproof: 1 Ex d IIC Ga/Gb T4 Ex tb IIIC Db T 85°C	Note 1	-50 °C to 85°C
and Kazakhstan	Intrinsically Safe: 0 Ex ia IIC Ga T4	Note 2a	-50 °C to 70°C
	Enclosure: IP 66/67	All	-
	İ	1	ı

Notes:

1. Operating Parameters:

- 2. Intrinsically Safe Entity Parameters
 - a. Analog/ DE/ HART Entity Values:

Transmitter with Terminal Block Revision E or Later

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:

XXXXXXX-EXXXX, THE "X" is production related, THE POSITION of the "E" IS THE REVISION.

Other Certification Options

SIL

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.

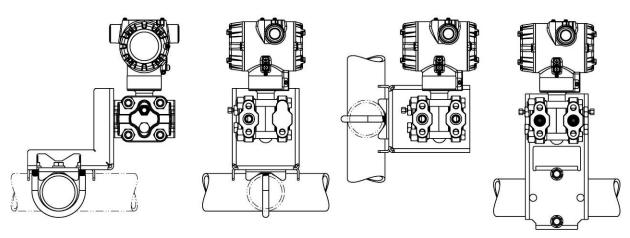
Materials

- NACE MR0175, MR0103, ISO15156

Mounting & Dimensional Drawings

Reference Dimensions: $\frac{\text{millimeters}}{\text{inches}}$

Mounting Configurations



Dimensions

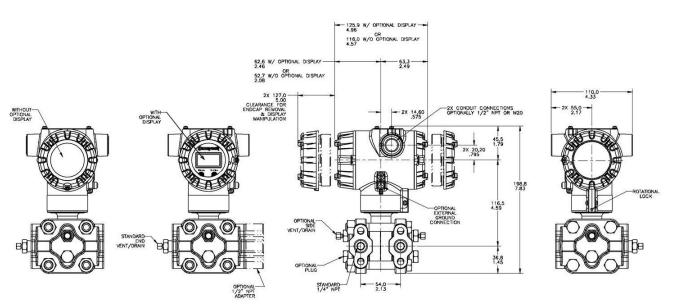


Figure 3 – Typical mounting dimensions of STD725, STD735 & STD775 for reference only

Selection Availability

Model Selection Guide_

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

Model STD700 Differential Pressure Transmitter

URL

Model Selection Guide: 34-ST-16-121 Issue 4

KEY NUMBER

a. Measurement	400/(1000)	-400/(-1000)	400/(1000)	4.0 (10)	" H ₂ O (mbar)	STD725	♦	١.	
Range	100 (7.0)	-100 (-7.0)	100 (7.0)	1 (0.07)	psi (bar)	STD735		₩	L
	3000 (210)	-100 (-7.0)	3000 (210)	30 (2.1)	psi (bar)	STD775	Ш	L_	Ľ
TABLE I		METED D	ODV SELECTI	ONS		1			
IADLE	Process Head	METER BODY SELECTIONS Process Head Material Diaphragm Material							
a. Process	110003311000	material	316L Stainles		ateriai	Α	*	*	T
Wetted Heads &	Plated Carbo	n Steel	Hastelloy® C-			^	*	*	١,
Diaphragm		316 Stainless Steel				E	*	*	t
Materials	316 Stainless						*	*	١,
	Hastelloy C	-276	Hastelloy C-2	J	*	*	t		
ь БИ Б ий	Silicone Oil 200				_1	*	*	T	
b. Fill Fluid	Fluorinated Oil CTFE					_2	*	*	
c. Process	None	None (1/4" NPTF	None (1/4" NPTF female thread Std)				*	*	Γ
Connection	1/2" NPT female	Materials to Match	Materials to Match Head & Head Bolt Materials Selections ¹					*	
	Carbon Steel					C	*	*	ľ
d. Bolt/Nut	316 SS					S	. *	*	1
Materials	Grade 660 (NACE A286) with NACE 304 SS Nuts					N	. *	*	1
Waterials	Grade 660 (NACE A286) Bolts & Nuts						. р	р	h
	Super Duplex						р	р	l
	Head Type	Vent Type	Location	Ve	nt Material				
	Single Ended	None	None	None		1	*	*	1
e. Vent/Drain	Single Ended	Standard Vent	Side	Matches Head N		2	*	*	1
Type/Location	Single Ended	Center Vent	Side	Stainless Steel		3	t	t	1
,,,	Dual Ended	Standard Vent	End	Matches Head N		4	*	*	ľ
	Dual Ended	Center Vent	End	Stainless Steel		5	l t	l t	1
	Dual Ended	Std Vent/Plug	Side/End	Matches Head N	<u>Material'</u>	6	*	<u> </u>	Ł,
f. Gasket	Teflon® or PTFE (Glass Fill					A_		l "	L
Material	Viton® or Fluorocarbon Elas Graphite	stomer				B_ C	*	*	Ι,
g. Static Pressure		tandard Static Pressure - 4500 psig (315 bar)						*	Ī

Max Span

Min Span

Units

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

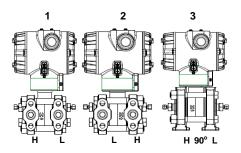




TABLE II		Meter Body & Connection Orientation
Head/Connect Orientation	Standard Reversed 90/Standard	High Side Left, Low Side Right ² /Std Head Orientation Low Side Left, High Side Right ² /Std Head Orientation High Side Left, Low Side Right ² /90 ⁰ Head Rotation

1	*	*	*
2	*	*	*
3	h	h	h

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 EAC-Customs Union(Russia,Belarus and Kazakhstan)EX Approval Flameproof,Intrinsically Safe

0	*	*	*
Α	*	*	*
В	*	*	*
С	*	*	*
D	*	*	*
E	*	*	*
F	*	*	*
G	*	*	*
ı	*	*	*

TABLE IV	TRANSMITTER ELECTRONICS SELECTIONS					
	Material		Connection	Lightning Protection		
a. Electronic Housing Material & Connection Type	Polyester Powder Coa	ted Aluminum	1/2 NPT	None		
	Polyester Powder Coa	ted Aluminum	M20	None		
	Polyester Powder Coa	ted Aluminum	1/2 NPT	Yes		
	Polyester Powder Coa	ted 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 (C	Grade CF8M)	M20	Yes		
b. Output/	Analog Output		Digital Protocol			
Protocol	4-20m A dc		HART Protocol			
	Indicator	Ext Zero, Span & Config Buttons		Languages		
	None	Non	е	None		
	None	Yes (Zero/Sp	oan Only)	None		
c. Customer	Standard (w/Internal					
Interface	Zero,Span & Config					
Selections	Buttons)	None	е	English		
	Standard (w/Internal					
	Zero,Span & Config					
	Buttons)	Yes		English		

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

	Buttons)	Yes		English	
TABLE V		CONFIGURA	TION SELECT	IONS	
a. Application		Diagnostics			
Software	Standard Diagnostics				
	Write Protect	Fail Mode	Н	igh & Low Output Limits ³	
b. Output Limit,	Disabled	High> 21.0mAdc	Honeywell Std	(3.8 - 20.8 mAdc)	
	Disabled	Low< 3.6mAdc	Honeywell Std	(3.8 - 20.8 mAdc)	
Protect Settings	Enabled	High> 21.0mAdc	Honeywell Std	(3.8 - 20.8 mAdc)	
	Enabled	Low< 3.6mAdc	Honeywell Std	(3.8 - 20.8 mAdc)	
c. General	Factory Standard				

H	*	*	*
_			
0	*	*	*
A S	*	*	*
	*	*	*
T	*	*	*

2 _3_ 4_

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Configuration

Custom Configuration (Unit Data Required from customer)

² Left side/Right side as view ed from the customer connection perspective

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

Accuracy Calibrated Range Calibration Qty	
a. Accuracy and Calibration Standard Standard Single Calibration	
Standard Custom (Unit Data Required) Single Calibration	

	STD775 STD735 STD725			\bigvee	
Г	Α	*	*	*	ı
	R	*	*	*	ı

Calibration	Standard	Custom (Unit	Data Required)	Single Calibration	В	*	*	*	
TABLE VII		ACC	ESSORY SELECTION	DNS					
	Brad	ket Type		Material					
a. Mounting	None Angle Bracket Angle Bracket		None Carbon Steel 304 SS		0 1 2	* * *	* * *	* * *	
Bracket	Angle Bracket Marine Approved Bra Flat Bracket Flat Bracket Flat Bracket Flat Bracket	cket	316 SS 304 SS Carbon Steel 304 SS 316 SS		3 4 5 6 7	* * * *	* * * * *	* * * *	
0	. iat Diagnot	(Customer Tag Type					_	
b. Customer Tag	No customer tag One Wired Stainless	Steel Tag (Up to 4 lin	es 26 char/line)		_0 _1	*	*	*	
c. Unassembled Conduit Plugs & Adapters	No Conduit Plugs or	NPT Female 316 SS Cified Conduit Plug	<u> </u>	apter	A0 A2 A6 A7	n n m	* n n		
TABLE VIII	OTHER Certifications	& Options: (String in	sequence comma	delimited (XX, XX, XX,)					
	NACE MR0175; MR0 Marine (DNV,ABS,BV EN10204 Type 3.1 M Certificate of Conform	103; ISO15156 Proce 103; ISO15156 Proce ,KR,LR) aterial Traceability	ss wetted and non		00 FG F7 MT FX F3 F1	* C d *	- 1	* c d * *	
Certifications & Warranty		tification Test Certificate (1.5X CL ₂ service per ASTM			F5 FE TP OX PM	; ; e *	; ; e *	; ; e *	
	Extended Warranty A Extended Warranty A Extended Warranty A Extended Warranty A	dditional 2 years dditional 3 years			01 02 03 04	* * *	* * * *	* * *	

TABLE IX	Manufacturing Specials				
Factory	Factory Identification	0000	*	*	*

MODEL RESTRICTIONS

Restriction Letter	Available Only with		Not Available with	
	Table	Selection(s)	Table	Selection(s)
С	1d	N,K,D		
d	Iva	C, D, G, H	VIIa	1, 2, 3, 5, 6, 7
е	lb	_2		
h			le	4, 5, 6
			VIIa	1, 2, 3, 4, 5, 6, 7
j			Vb	_ 1,2 _
m	IVa	B, D, F, H		
n	IV a	A, C, E, G		
р			III	B- No CRN number available
t			la	J
b	Select only one option from this group			

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 REPLACEMENT PARTS

TIED INCTALLABLE REI EAGLIMENT FARTO	
Description	Kit Number
Terminal Strip w/o Lightning Protection Kit for HART Module	50129832-501
Terminal Strip w/Lightening 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

Note P - For part number pricing please refer to WEB Channel

PRODUCT MANUALS

Description	Part Number
ST 700 Smart Transmitter User Manual - English	34-ST-25-44
ST 700 Smart Transmitter HART Communications Manual - English	34-ST-25-47
ST 700 Smart Transmitter Safety Manual - English	34-ST-25-37

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

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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AMERICA'S

Honeywell Process Solutions, Phone: (TAC) 1-800-423-9883 or 215/641-3610 (Sales) 1-800-343-0228

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FP-Sales-Apps@Honeywell.com

or (TAC)

hfs-tac-support@honeywell.com

Specifications are subject to change without notice.

For more information

To learn more about SmartLine Pressure Transmitters visit <u>www.honeywellprocess.com</u> Or contact your Honeywell Account Manager

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