SmartLine

Honeywell

Technical Information

STT850 SmartLine Temperature Transmitter Specification 34-TT-03-14, March 2016



Introduction

Part of the SmartLine® family of products, the SmartLine STT850 is a high performance temperature transmitter offering high accuracy and stability over a wide range of process and ambient 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 needs for temperature measurement applications.

Best in Class Features:

Industry leading performance

- Digital Accuracy up to +/- 0.10 Deg C for RTD
- Stability up to +/- 0.01% of URL per year for ten years
- 125 mSec update time for single input models
- o 250 mSec update time for dual input models

Reliable measurement

- o Built in Galvanic Isolation
- Differential/Averaging/Redundant/Split Range measurements
- o Dual Compartment Housing
- o Sensor Break detection
- o Comprehensive on-board diagnostic capabilities
- o Full compliance to SIL 2/3 requirements.
- Available with 15 year warranty
- o Supports Namur 107 Extended Diagnostics
- o Supports Namur 89 Wire break
- o Direct entry of Callendar-van Dusen coefficients R_0 , α , δ and β for calibrated RTD sensors (not available on DE units)



Figure 1- Smartline STT850 Temperature transmitter

Lower Cost of Ownership

- Universal input
- Dual sensor option
- o Multiple local display capabilities
- Modular construction
- External zero, span, & configuration capability
- o Polarity insensitive loop wiring
- Digital Output Option (only available with HART)

Communications/Output Options:

- o 4-20 mA dc
- Honeywell Digitally Enhanced (DE)
- o HART ® (version 7.0)
- FOUNDATION™ Fieldbus compliant to ITK 6.1.2

All transmitters are available with the above listed communications protocols.

Description

The SmartLine Temperature Transmitter is designed and manufactured to deliver very high performance across varying ambient temperature. The total accuracy of the transmitter including the ambient temperature effect in harsh industrial environments, allows the STT850 to replace virtually any competitive transmitter available today.

Unique Indication/Display Options

The STT850 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)
- o 0, 90,180, & 270 degree position adjustments
- o Deg C, F, R and Kelvin measurement units
- o 2 Lines 16 Characters (4.13H x 1.83W mm)
- Up to 8 display screens with similar formats
- Configurable screen rotation timing (3 to 30 sec)
- Auto/Manual selection for screen rotation
- Displays up to 9 Datapoints Loop PV, CJ
 Temperature, Sensor 1, Sensor 2, Sensor Delta,
 RTD 1 Resistance, RTD 2 Resistance,
 Loop output, Percent Loop.
- Out of Range Indication
- PV Status and critical fault indication

Advanced Graphics LCD Display Features

- Modular (may be added or removed in the field)
- o 0, 90, 180, & 270 degree position adjustments
- Up to eight display screens with 3 formats are possible (Large PV with Bar Graph or PV with Trend Graph)
- Configurable screen rotation timing (3 to 30 sec)
- Provides instant visibility for diagnostics
- Multiple language capability. (EN, GE, FR, IT, SP, RU, TR, CN & JP)

Configuration Tools

Integral Three Button Configuration Option

Suitable for all electrical and environmental requirements, SmartLine offers the ability to configure the transmitter and display via three externally accessible buttons when either display option is selected. Zero or 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 Configuration tool.

The Honeywell Handheld MC Toolkit 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.

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/DE/Fieldbus.
- Integration with Honeywell's Experion PKS offers the following unique advantages.
 - o Transmitter messaging
 - o Maintenance mode indication
 - Tamper reporting (HART only)
 - o FDM Plant Area Views with Health summaries
 - All STT850 units are Experion tested to provide the highest level of compatibility assurance

Modular Design

To help contain maintenance & inventory costs, all STT850 transmitters are modular in design supporting the user's ability to replace temperature boards, add indicators or change electronic modules without affecting overall performance or approval body certifications. Each temperature board is uniquely characterized to provide intolerance performance over a wide range of application variations in temperature and due to the Honeywell advanced interface, electronic modules may be swapped with any electronics module without losing in-tolerance performance characteristics

Modular Features

- Replace Temperature/Terminal board/Lightning protection*
- Exchange/replace electronics/comms modules*
- Add or remove integral indicators*
- Add or remove external configuration buttons
- * 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.*

Digital Output Option

An optional Digital Output (open collector type) is available on HART transmitters which can be used to activate external equipment when preset Alarm Setpoints are reached. The Digital Output can be set to monitor two independent setpoints based upon the analog value of the PV or upon device status.

The following Alarm Types are available:

- · PV High
- · PV Low
- · Critical Diagnostic Active
- · Redundant Input Active**
- · PV Rate of Change Alarm *
- · PV Deviation Alarm *

Alarms can be configured as latching or non-latching. Alarm Blocking is also available which allows start-up without the alarm energizing until it first reaches the operating region.

Alarm Hysteresis is configurable from 0 to 100% of PV range.

The Digital Output functionality and status is also available over the HART communications link.

- * These Alarm Types are available as part of the Advanced Diagnostics option. Rate of Change monitors the rate at which the PV is changing, configurable as either increasing or decreasing. Deviation monitors the PV delta from a separately configurable Setpoint value.
- ** Available only via Communications Status
 See the Wiring Diagrams on page 12 for further information.

Performance Specifications^{1,3}

Reference Accuracy 2 (conformance to +/-3 Sigma)

Input Type	Maximum R	ange Limits	Digital Accuracy (+/-)	Output D/A Accuracy (% of span)	Standards
RTD (2,3,4 wire)	° C	°F	° C	%	
Pt25 ⁶	-200 to 850	-328 to 1562	0.50	0.005	IEC751:1990 (α=0.00385)
Pt100	-200 to 850	-328 to 1562	0.10	0.005	IEC751:1990 (α=0.00385)
Pt200	-200 to 850	-328 to 1562	0.20	0.005	IEC751:1990 (α=0.00385)
Pt500	-200 to 850	-328 to 1562	0.12	0.005	IEC751:1990 (α=0.00385)
Pt1000 ⁵	-200 to 500	-328 to 932	0.10	0.005	IEC751:1990 (α=0.00385)
Ni 120	-80 to 260	-112 to 500	0.08	0.005	Edison Curve #7 (α=0.00672)
Cu 10	-50 to 250	-58 to 482	1.00	0.005	Edison Copper Winding #15 (α=0.00427)
Thermocouples	°C	°F	° C	%	
В	200 to 1820	392 to 3308	0.60	0.005	IEC 584-1 (ITS-90)
Е	-200 to 1000	-328 to 1832	0.20	0.005	IEC 584-1 (ITS-90)
J	-200 to 1200	-328 to 2192	0.25	0.005	IEC 584-1 (ITS-90)
К	-200 to 1370	-328 to 2498	0.25	0.005	IEC 584-1 (ITS-90)
N	-200 to 1300	-328 to 2372	0.40	0.005	IEC 584-1 (ITS-90)
R	-50 to 1760	-58 to 3200	0.50	0.005	IEC 584-1 (ITS-90)
S	-50 to 1760	-58 to 3200	0.50	0.005	IEC 584-1 (ITS-90)
Т	-250 to 400	-418 to 752	0.20	0.005	IEC 584-1 (ITS-90)
C (W ₅ W ₂₆)	0 to 2300	32 to 4172	0.60	0.005	ANSI/ASTM E-230 (ITS-90)

Other Input Types	Maximum Range Limits	Digital Accuracy (+/-)	Output D/A Accuracy (% of span)	Standards
Millivolts ⁵	-100 to 1200 mV	0.12 mV	0.005	
Millivolts	-20 to 125 mV	0.015 mV	0.005	
Ohms ⁵	0 to 500 Ohms	0.2 Ohms	0.005	
Ohms	0 to 2000 Ohms	0.3 Ohms	0.005	
Ohms ⁵	0 to 3000 Ohms	0.45 Ohms	0.005	

- 1. Digital Accuracy is accuracy of the digital value accessed by the Host system and the handheld communicator
- 2. Total analog accuracy is the sum of digital accuracy and output D/A Accuracy
- 3. Output D/A Accuracy is applicable to the 4 to 20 mA Signal output
- 4. For TC inputs, CJ accuracy shall be added to digital accuracy to calculate the total digital accuracy
- 5. These input types are not available on DE units
- 6. Custom Callendar-van Dusen not available for Pt25 sensors

Differential Temperature Measurement

SmartLine Temperature supports differential temperature measurements between any two types of sensors. When the loop current mode is set to "Differential" then the input range is from A to B for sensor 1 & 2 where

A = Sensor 1 Minimum - Sensor 2 Maximum

B = Sensor 1 Maximum - Sensor 2 Minimum

Digital Accuracy for differential temperature measurement

If both the inputs are similar the digital accuracy equals 1.5 times the worst case accuracy of either sensor type.

For mixed input types the digital accuracy is the sum of sensor 1 and sensor 2 digital accuracies.

Performance under Rated Conditions – All Models

Parameter	Description		
Input Span Adjustment Range	No limits to adjustmengineering unit	nents within the maximum ran	ge except minimum span limit of 1
Analog Output		nA (HART & DE Transmitters	only)
Digital Communications:		RT 7 protocol or Foundation F	• •
Digital Communications.	•	spective of protocol have polar	•
Output Failure Modes	, , , , , , , , , , , , , , , , , , , ,	Honeywell Standard:	NAMUR NE 43 Compliance:
(HART/DE only)	Normal Limits:	3.8 – 20.8 mA	3.8 – 20.5 mA
(,,	Failure Mode:	≤ 3.6 mA and ≥ 21.0 mA	≤ 3.6 mA and ≥ 21.0 mA
Output Accuracy (HART/DE only)			
Supply Voltage Effect	0.005 % span per v	olt.	
Transmitter Turn on Time	'		
(includes power up & test	HART or DE: 2.5 s	ec. Founda	ation Fieldbus: Host dependant
algorithms)			·
Analog Input	Stability: 0.01% of	URL per Year for 10 years	
•	Maximum Lead W		
	Thermocouples: 5	0 ohms per leg	
	RTD (all except Pt	15) and Ohms: 50 ohms per	leg
	RTD Pt25: 10 ohms	s per leg	-
Response Time	<u></u>	E/HART Analog Output	FOUNDATION Fieldbus
(delay + time constant)	Single Input:	130 - 230 mSec	Host Dependant
	Dual Input:	305 - 455 mSec	Host Dependant
Update time	125 mSec for single	e input units	·
•	250 mSec for dual i		
Damping Time Constant	HART: Adjustable f	rom 0 to 102 seconds in 0.1 i	ncrements. Default: 0.50 seconds
	DE: Discrete value	s 0.0, 0.3, 0.7, 1.5, 3.1, 6.3, 1	2.7, 25.5, 51.1, 102.3 seconds.
	Default: 0.3 second	ds	
Ambient Temperature Effect	Digital Accuracy		
	For RTD Inputs: 0.	0015 °C/°C	
	For T/C Inputs: 0.	005 °C/°C	
	Output D/A: 0.000	5 % of span/°C	
Cold Junction Accuracy	±0.25 °C		
Total Reference Accuracy	Digital Mode		
	Digital Accuracy + 0	C/J Accuracy (T/C input types	only)
	Analog Mode (HAI	RT/DE only)	
	Digital Accuracy + 0	Output D/A Accuracy + C/J Ac	ccuracy (T/C input types only)
		_	0 sensor and 0 to 200°C range
	Total Reference Ac	curacy = 0.10°C + (200 °C / 1	00 %) * 0.005 % = 0.11 °C
Sensor Burnout		•	down scale with critical status
		or ohm type inputs; broken w	rire/wires will be indicated
Digital Output	Contact Rating	00.1/d=	
	Low Level: 0 to 2		num (controlled by load resistance)
Vibration Effect		ld or pipeline, high vibration le	2VOI (10-2000Hz: 0.21
VIDIATION ENect	displacement/3g ma		ever (10-2000112, 0,21
Electromagnetic Compatibility	IEC 61326-3-1	ax acceleration)	
Isolation		ns) Galvanic isolation between	o inputs and output
		is) Galvariic isolation between	Tiliputs and output.
Stray Rejection	Common Mode	120 dB (with maximum course	e impedance of 100 ohms) or ±
	•	cant bit) whichever is greater	·
	,	,	with line voltage applied. f 50 ohms) or a ±1 LSB whichever is
	greater with 120 Vo		1 30 Online) Of a ±1 L3D WillChever Is
	•	• •	mpedance of 50 ohms) or ±1 LSB
		r with 50 Vac applied.	impedance of 50 offitis) of ±1 LSB
	Normal Mode	with ou vac applied.	
		60 dB (with 100% span peak-	to-neak maximum)
	AO (30 01 00 HZ).	שט סט (with 100 /o span peak-	to peak maximum)

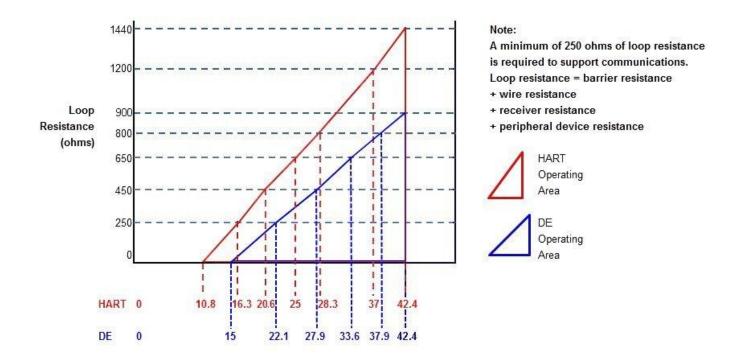
Performance under Rated Conditions - All Models (continued)

Parameter	Description					
EMC Compliance	EN 61326-1 and	61326-1 and EN 61326-3-1 (SIL)				
Lightning Protection Option	Leakage Curren	t: 10 uA max (@ 42.4 VDC 85 °C			
	Impulse rating:	8/20 uS	5000 A (>10 strikes)	10000 A (1 strike min.)		
		10/1000 uS	200 A (> 300 strikes)			

Operating Conditions – All Models

Parameter	Condition		Transportation and Storage						
		°C	°F	∘C	°F	°C	°F	°C	°F
Ambient Temperature	e ¹								
	STT850	25±1	77±2	-40 to 85	-40 to 185	-40 to 85	-40 to 185	-55 to 120	-67 to 248
Humidity %RH		10 1	to 55	0 to	100	0 to	100	0 to	100
		HART	Models:	11.8 to 42.4	Vdc at termin	nals (IS versi	ions limited to	o 30 Vdc)	
Supply Voltage		0 to 1,400 ohms (as shown in Figure 2)							
Supply Voltage		DE Models: 13.8 to 42.4 Vdc at terminals (IS versions limited to 30 Vdc)							
Load Resistance		0 to 1,3	300 ohms	s (as shown ir	Figure 2)				
		FF Mo	dels: 9.0	0 to 32.0 Vdc	at terminals				

 $^{^1\,}$ LCD Display operating temperature -20°C to +70°C . Storage temperature -30°C to 80°C.



For DE, Rlmax = 35* (Power Supply Voltage-15) For HART, Rlmax = 45.6* (Power Supply Voltage-10.8)

Figure 2 - Supply voltage and loop resistance chart & calculations (not applicable for Fieldbus)

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

Parameter	Description
Mounting Bracket	Wall or 2" Pipe, Carbon Steel (Zinc-plated) or 316 Stainless Steel
Electronic Housing	Pure Polyester Powder Coated Low Copper (<0.4%)-Aluminum. Meets Type 4X, IP66, & IP67. All stainless steel housing is optional. Cover O Ring Material: Silicone
Sensor/Cable Entry	1/2 NPT electrical connection or M20x1.5
Mounting	Can be mounted in virtually any position using the standard mounting bracket. Bracket
Mounting	is designed to mount on 2-inch (50 mm) vertical or horizontal pipe.
Wiring	Accepts up to 16 AWG (1.5 mm diameter).
Dimensions	See Figure 3, Figure 4, Figure 6, Figure 7, Figure 8 and Figure 9
Net Weight Lbs (kg)	Aluminum housing for transmitter with Display – 2.7 lbs (1.22 kg)
	Aluminum housing for transmitter w/o Display – 2.6 lbs (1.18 kg)
	Stainless Steel housing for transmitter with Display – 4.9 lbs (2.22 kg)
	Stainless Steel housing for transmitter w/o Display – 4.8 lbs (2.18 kg)

Communications Protocols & Diagnostics

HART Protocol

Version:

HART 7

Power Supply

Voltage: 11.8 to 42.4Vdc at terminals Load: Maximum 1400 ohms See figure 2

Minimum Load: 0 ohms. (For handheld communications a

minimum load of 250 ohms is required) IEC 61508 Safety Certified SIL 2 and SIL 3

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: 13.8 to 42.4Vdc at terminals Load: Maximum 1300 ohms See figure 2

Foundation Fieldbus (FF)

Power Supply Requirements

Voltage: 9.0 to 32.0 Vdc at terminals Steady State Current: 17.6 mA Software Download Current: 27.6 mA

Available Blocks

Block Type	Qty	Execution Time
Resource	1P	n/a
Temperature Transducer	1P	n/a
Diagnostic	1P	n/a
Analog Input	1P, 4I	30 ms
PID w/Autotune	1P, 1I	45 ms
Discrete Input	1P, 2l	30 ms
Signal Characterizer	1P	30 ms

LCD Display	1P	n/a
Input Selector	1P	30 ms
Arithmetic	1P, 2l	30 ms
Output Splitter	1P	30 ms

P = Permanent I = Instantiable

The AI function block allows the user to configure the alarms to HIGH-HIGH, HIGH, LOW, or LOW-LOW with a variety of priority levels and hysteresis settings.

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 (LAS) 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: 15 devices/segment

Schedule Entries

45 maximum schedule entries

50 maximum Links

Number of VCR's: 50 max

Compliance Testing: Tested according to ITK 6.1.2

Software Download

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

Standard Diagnostics

STT850 top level diagnostics are reported as either critical or non-critical as listed below. All diagnostics are readable via the DD/DTM tools. All critical diagnostics will appear on the Basic and Advanced integral displays, non-critical diagnostics will appear on the Advanced integral display.

Critical Diagnostics

- Sensor Module Fault
- Communications Module Fault
- Sensor Communications Fault
- Input 1 Fault
- Input 2 Fault

Non Critical Diagnostics (for Advanced Display only)

- Cal 1 Correct
- Cal 2 Correct
- Sensor Temperature
- Sensor 1 Health
- Sensor 2 Health
- Input 1 Range
- Input 2 Range
- CJ Range
- Input 1
- Input 2
- Input 1 TB5 (For RTD and Ohm types only)
- Input 1 TB6 (for RTD and Ohm types only)
- Input TB7 (Input 1 or 2, for RTD and Ohm types only)
- Input 1 TB8 (for 4-Wire RTD and Ohm types only)
- Input 2 TB8 (for RTD and Ohm types only)
- Input 2 TB9 (for RTD and Ohm types only)
- Factory Calibration
- Loop Supply Voltage (not available on Fieldbus)
- Communications Module Temperature
- DAC Temperature Compensation (not available on Fieldbus)
- Sensor Communications
- Display Setup (not for Fieldbus)
- Excess Delta Alert

Approval Certifications:

MSG CODE	AGENCY	TYPE OF PROTECTION	COMM OPTION	Electrical Parameters	Ambient Temperature
		Explosion proof, Certificate: 3051269: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G; T4 Class 1, Zone 1, AEx d IIC T4 Gb Class 2, Zone 21, AEx tb IIIC T 95°C IP 66 Db	4-20 mA/ DE/HART/ FF/ PROFIBUS	Note 1	-50°C to 85°C With Display: -20°C to 70°C
А	FM Approvals ™ (USA)	Intrinsically Safe, Certificate: 3051269: 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	4-20 mA/ DE/HART /FF/ PROFIBUS	Note 2	-50°C to 70°C With Display: -20°C to 70°C
		Non-Incendive, Certificate: 3051269: Class I, Division 2, Groups A, B, C, D; T4 Class I Zone 2 AEx nA IIC T4 Gc AEx nA IIC T4	4-20 mA/ DE/HART /FF/ PROFIBUS	Note 1	-50°C to 85°C With Display: -20°C to 70°C
		Standards: FM 3600:2011; ANSI/ ISA 60079- FM 3615:2006; ANSI/ ISA 60079- FM 3616 : 2011 ; ANSI/ ISA 60079- FM 3610:2010; ANSI/ ISA 60079- FM 3810 : 2005 ; FM 3611:2004; FM 3810 : 2005 ; NEMA 250 : 200	1 : 2009 9-31 : 2009 11 : 2013 ANSI/ ISA 600 03 ; ANSI/ IEC	60529 : 2004	
		Enclosure: Type 4X/ IP66/ IP67	ALL	ALL	ALL
		Explosion proof, Certificate: 2689056: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G; T4 Zone 1 Ex d IIC T4 Gb Ex tb IIIC T 95°C IP 66 Db DIP A21 Class II, III	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
В	CSA-Canada	Intrinsically Safe, Certificate: 2689056: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4 Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA/ DE/HART/ FF	Note 2	-50°C to 70°C
		Non-Incendive, Certificate: 2689056: Class I, Division 2, Groups A, B, C, D; T4 Class I Zone 2 Ex nA IIC T4 Gc Ex nA IIC T4 Gc	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Enclosure: Type 4X/ IP66/ IP67	ALL	ALL	ALL
		Standards: CSA C22.2 No. 0-10; CSA 22.2 No. 30-M1986 (reaffire CSA C22.2 No. 142-M1987 (reaffire C22.2 No. 213-M1987 (reaffirmed	med 2012); CS rmed 2009); (SA C22.2 No. 94-M CSA-C22.2No.157-9	-

MSG CODE	AGENCY	TYPE OF PROTECTION	COMM OPTION	Electrical Parameters	Ambient Temperature
CODE		C22.2 No. CSA 60079-0:2011; C2 C22.2 No. 60079-15: 2012; C22.2	2.2 No. 60079	-1: 2011; C22.2 No.	
		ANSI/ ISA12.12.01-2012; ANSI/ I ANSI/ ISA 60079-1 (12.22.01): 20 ANSI/ ISA 60079-26 (12.00.03) : ANSI/ ISA 60079-27 (12.02.04) : FM Class 3615: Aug 2006; FM Class 3615: Au	009 ; ANSI/ ISA 2011; ANSI/ IS, 2006; ANSI/ IS, ass 3616: Dec 2	60079-11(12.02.01 A 60079-15(12.12.0 A 60079-31(12.10.0 2011; ANSI/ IEC 605)2) : 2012 ;)3) : 2009 ;
		Flameproof, Sira 14ATEX2046X: II 2 G Ex d IIC T4 Gb II 2 D Ex tb IIIC T 95°C Db IP 66/ IP67	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Intrinsically Safe, Sira 14ATEX2046X: II 1 G Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA/ DE/HART/ FF	Note 2	-50°C to 70°C FISCO: -50°C to 45°C
С	ATEX	Enclosure: IP66/ IP67	ALL	ALL	ALL
		Standards: EN 60079-0: 2012; EN 60079- EN 60079-11: 2011; EN 60079-20			
		Non Sparking, Sira 14ATEX4052X: II 3 G Ex nA IIC T4 Gc	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Enclosure: IP66/ IP67	ALL	ALL	ALL
		Standards: EN 60079-0: 2012; EN 60079-	15 : 2010; IEC	60529 : 2009 with 0	Corr 3
		Flameproof, SIR 14.0020X Ex d IIC T4 Gb Ex tb IIIC T 95°C IP 66/ IP67	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Intrinsically Safe, SIR 14.0020X Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA/ DE/HART/ FF	Note 2	-50°C to 70°C FISCO: -50°C to 45°C
D	IECEx	Non Sparking, SIR 14.0020X Ex nA IIC T4 Gc	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Enclosure: IP66/ IP67	ALL	ALL	ALL
		Standards: IEC 60079-0: 2011, Edition 6; IEC 60079-11 : 2011, Edition 6; II IEC 60079-26 : 2006, Edition 2; II IEC 60529 : 2009 with Corr 3	EC 60079-15 : 2	2010, Edition 4	
		Flameproof: Ex d IIC T4 Gb Ex tb IIIC T 85°C IP 66 Db	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
E	SAEx (South	Intrinsically Safe: Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA/ DE/HART/ FF	Note 2	-50°C to 70°C
	Africa)	Non Sparking: Ex nA IIC T4 Gc	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Enclosure: IP66/ IP67	ALL	ALL	ALL
F	INMETRO	Flameproof: Ex d IIC T4 Gb Ex tb IIIC T 95°C IP 66 Db	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C

MSG CODE	AGENCY	TYPE OF PROTECTION	COMM OPTION	Electrical Parameters	Ambient Temperature
		Intrinsically Safe: Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA/ DE/HART/ FF	Note 2	-50°C to 70°C
		Non Sparking: Ex nA IIC T4 Gc	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Enclosure: IP66/ IP67	ALL	ALL	ALL
		Flameproof: Ex d IIC T4 Gb Ex tb IIIC T 85°C IP 66	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
G	NEPSI (CHINA)	Intrinsically Safe: Ex ia IIC T4 FISCO Field Device (Only for FF Option) Ex ia IIC T4	4-20 mA/ DE/HART/ FF	Note 2	-50°C to 70°C
		Non Sparking: Ex nA IIC T4	4-20 mA/ DE/HART/ FF	Note 1	-50°C to 85°C
		Enclosure: IP66/ IP67	ALL	ALL	ALL

Notes

1. Operating Parameters:

4-20 mA/DE/HART (Loop Terminal)

Voltage= 11 to 42 V Current= 4-20 mA Normal (3.8 – 23 mA Faults)

FF (Loop Terminal)

Voltage= 9 to 32 V Current= 25 mA

2. Intrinsically Safe Entity Parameters

Terminals 1 and 2- LOOP: Ui = 30 Vdc, Ii = 225 mA, Pi = 900 mW, Ci = 4 nF, Li = 0 μ H

Terminals 5, 6, 7, 8, 9- SENSOR: Ci = 4 nF, $Li = 0 \mu H$

DIGITAL OUTPUT OPTION:

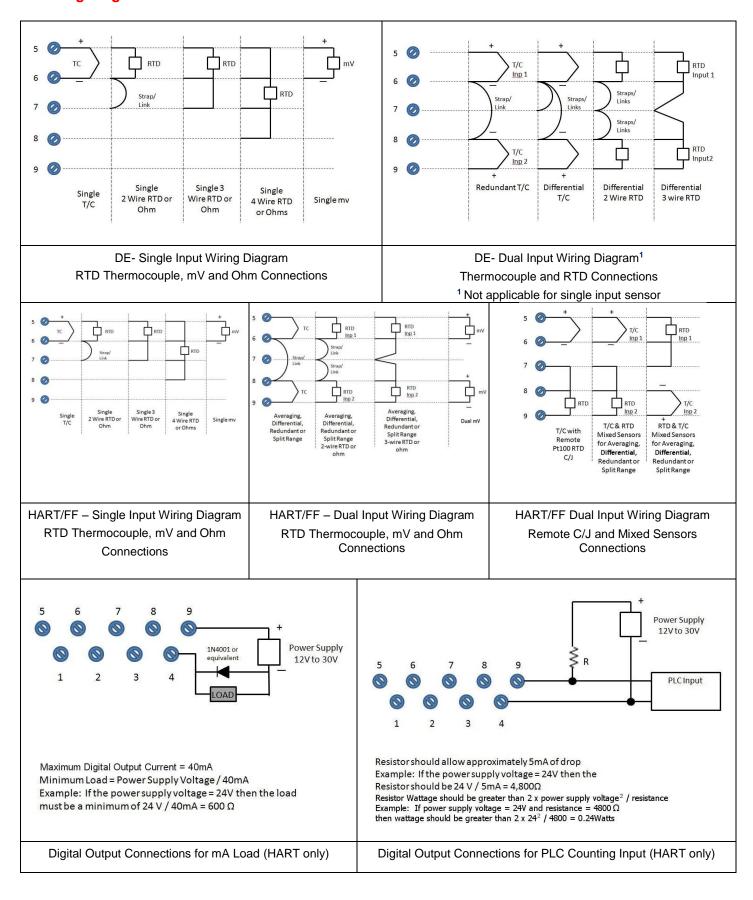
Terminals 1 and 2- LOOP: Ui = 30 Vdc, Ii = 225 mA, Pi = 900 mW, Ci = 4 nF, Li = 0 μ H Terminals 4 and 9, DO OPTION: Ui = 30 Vdc, Ii = 40 mA, Pi = 500 mW, Ci = 4 nF, Li = 0 μ H

Terminals 5, 6,7, 8 - SENSOR: Ci = 4 nF, $Li = 0 \mu H$

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.

Wiring Diagrams



Mounting & Dimensional Drawings

TRANSMITTER ENCLOSURE CAN BE ROTATED A TOTAL OF 900 FROM THE STANDARD MOUNTING POSITION

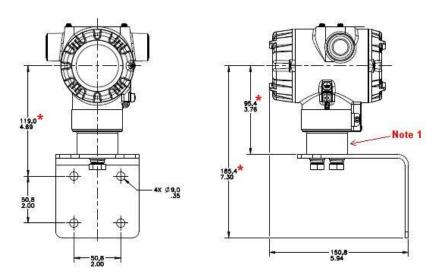
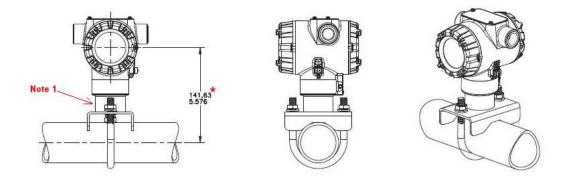
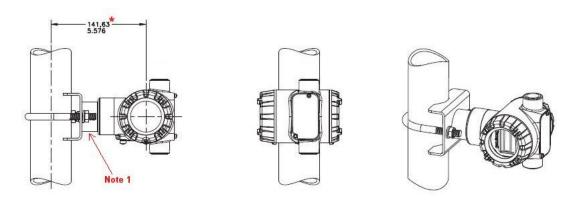


Figure 3 – STT850 with adapter housing - Horizontal Wall Mounting



HORIZONTAL FLAT PIPE MOUNT



VERTICAL FLAT PIPE MOUNT

Figure 4 – STT850 Pipe Mount with adapter housing - Horizontal & Vertical * Note 1: Figure 3 &

Figure 4. Housing adapter may not be present on all transmitter models. If the housing adapter is not present, subtract 24,5mm (0,96 inches) from the dimension specified.

Mounting & Dimensional Drawings

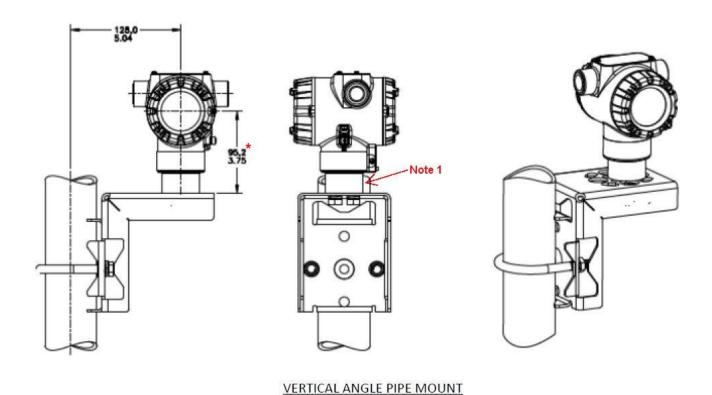


Figure 5 - STT850 Pipe Mount, Vertical

Note 1: Figure 5. Housing adapter may not be present on all transmitter models. If the housing adapter is not present, subtract 24,5mm (0,96 inches) from the dimension specified.

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

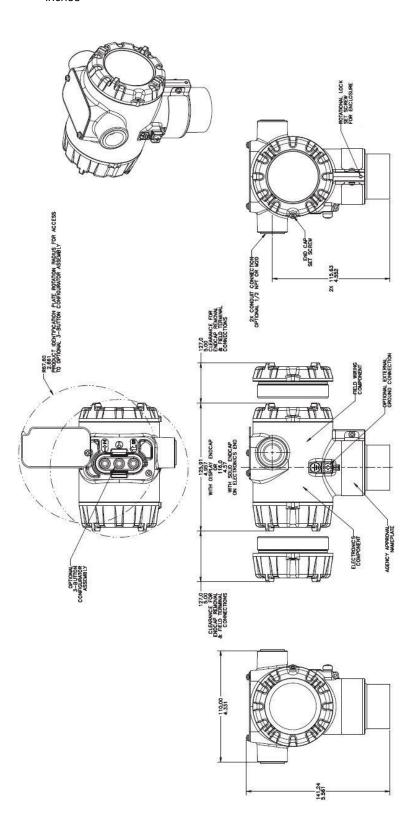


Figure 6 - STT850 with adapter housing - Dimensions

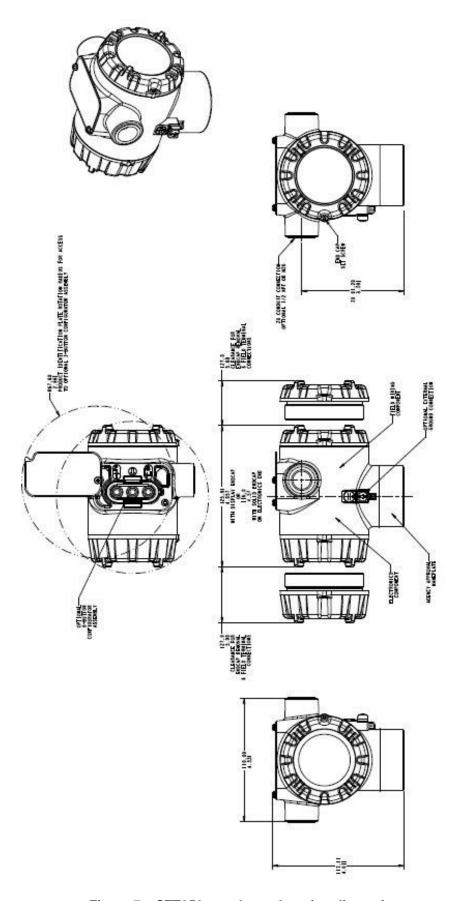


Figure 7 – STT850 no adapter housing dimensions

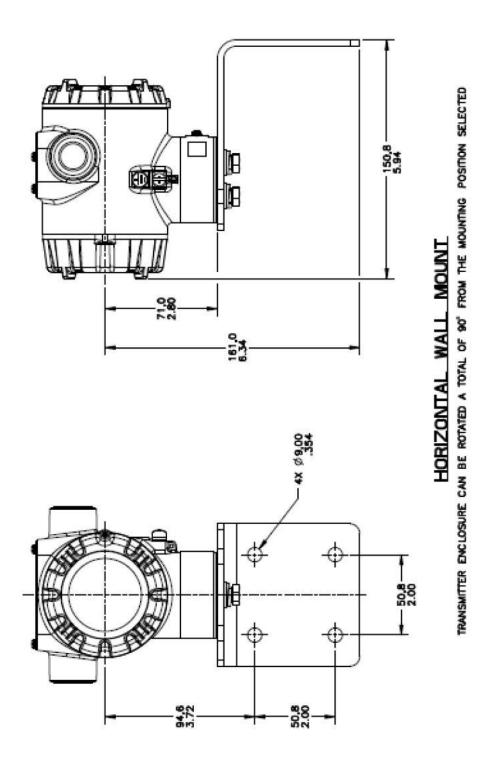
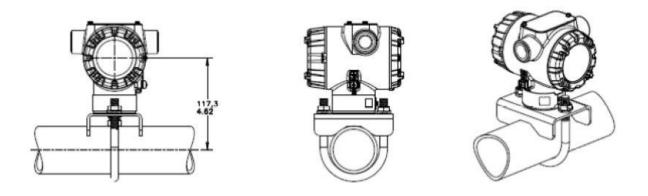
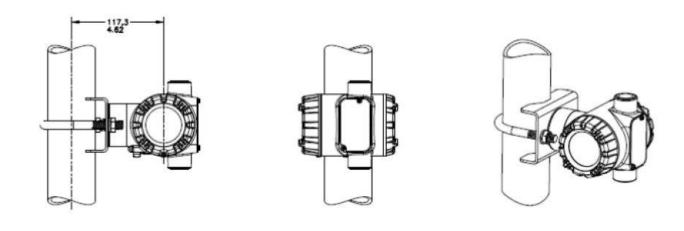


Figure 8 – STT850 No-Adapter Horizontal Wall Mounting



HORIZONTAL PIPE MOUNT

TRANSMITTER ENCLOSURE CAN BE ROTATED A TOTAL OF 90' FROM THE MOUNTING POSITION SELECTED



VERTICAL PIPE MOUNT

TRANSMITTER ENCLOSURE CAN BE ROTATED A TOTAL OF 90' FROM THE MOUNTING POSITION SELECTED

Figure 9 - STT850 No-Adapter Horizontal & Vertical Pipe Mounting

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

Model Selection Guide_

Model STT850 Smart Temperature Transmitter

Model Selection Guide:

34-44-16-14 Issue 7

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Key I	II III IV	V VI	VII	VIII IX		
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Extended Warranty Additional 2 years 02	*										
	*										
Extended Warranty Additional 3 years 03	*	03	Extended Warranty Additional 3 years								
Extended Warranty Additional 4 years 04	*										
Extended Warranty Additional 15 years	*	15	Extended Warranty Additional 15 years								

Manufacturing Specials
Factory Identification

TABLE IX

Factory

MODEL RESTRICTIONS

Restriction Letter	Available O	nly with	Not Availa	able with		
	Table	Selection(s)	Table	Selection(s)		
		S				
а	IV	_H_				
С			IVb	_ D_		
е	=	0				
f			IVb	_F_		
g			IVb	_ H,D_		
h			II	1		
j	IVb	_ H _	Vb	_ 1,2,5,6 _		
m	IVa	B,D,F,H				
n	IVa	A,C,E,G				
b	Select only one option from this group					

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

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Specifications are subject to change without notice.

For more information
To learn more about SmartLine Temperature, visit www.honeywellprocess.com
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