

Mounting & Dimensional Drawings

TRANSMITTER ENCLOSURE CAN BE ROTATED A TOTAL OF 90° FROM THE STANDARD MOUNTING POSITION

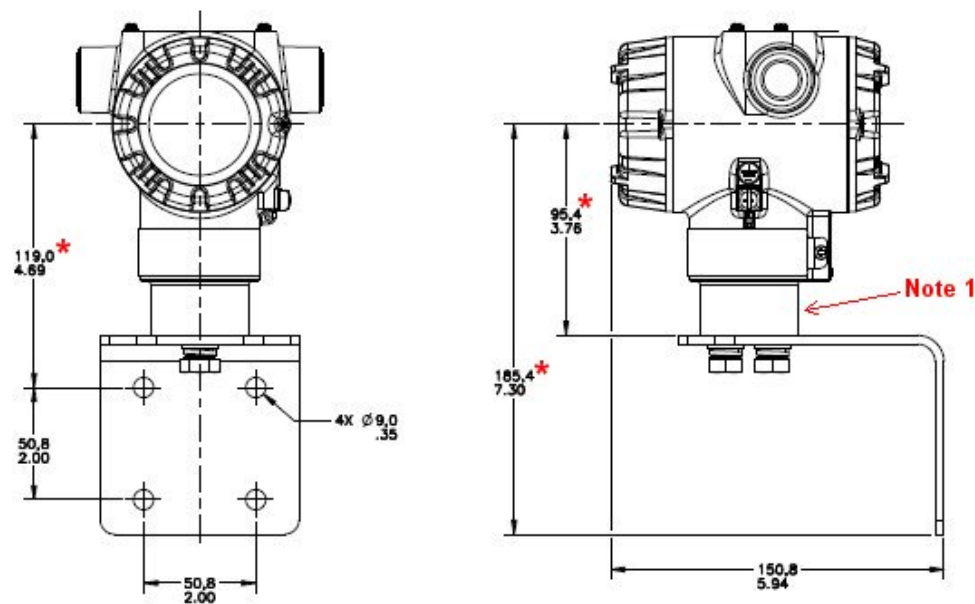
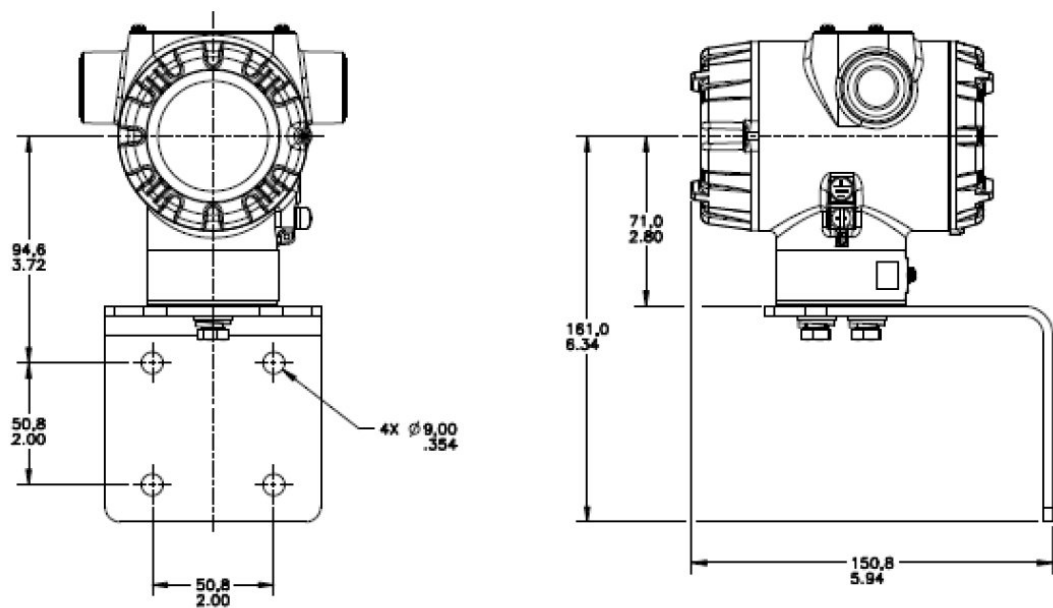


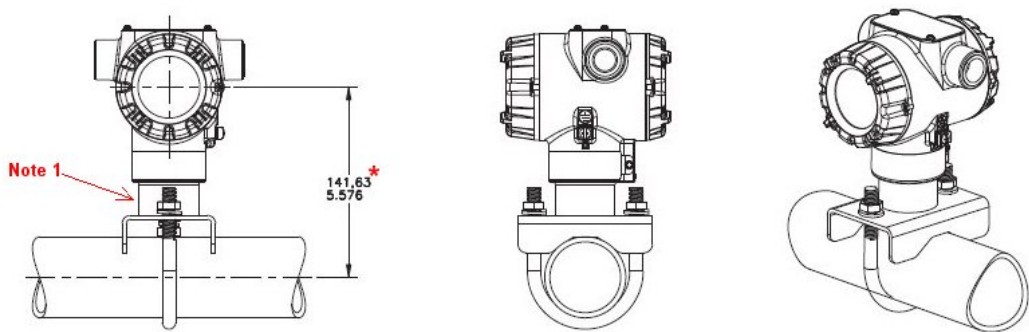
Figure 3 – STT850 with adapter housing - Horizontal Wall Mounting



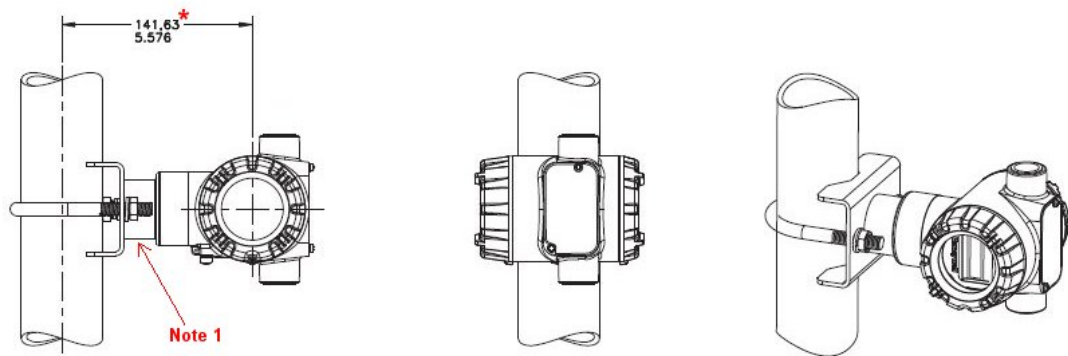
HORIZONTAL WALL MOUNT

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

Figure 4 – STT850 No-Adapter Horizontal Wall Mounting

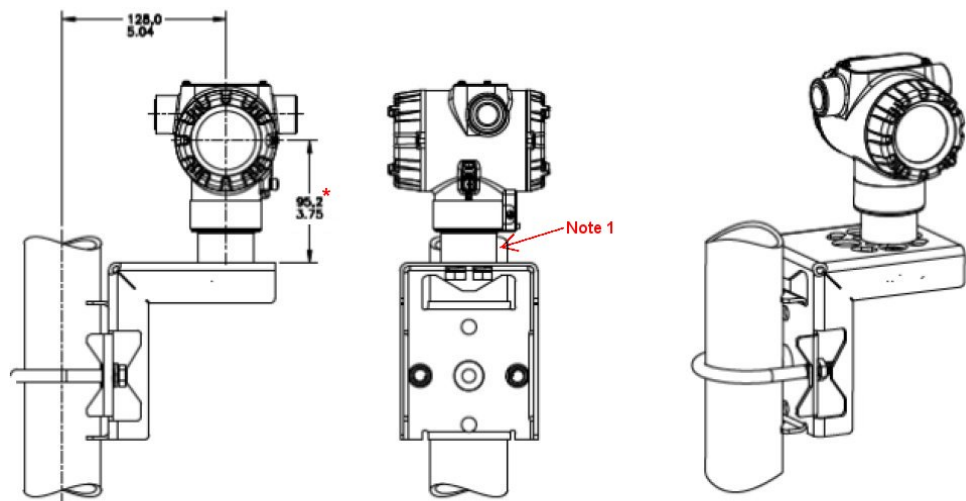


HORIZONTAL FLAT PIPE MOUNT



VERTICAL FLAT PIPE MOUNT

Figure 5 – STT850 Pipe Mount with adapter housing - Horizontal & Vertical



VERTICAL ANGLE PIPE MOUNT

Figure 6 - STT850 Pipe Mount, Vertical

***Note 1:** Figure 5 and 6. The 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.

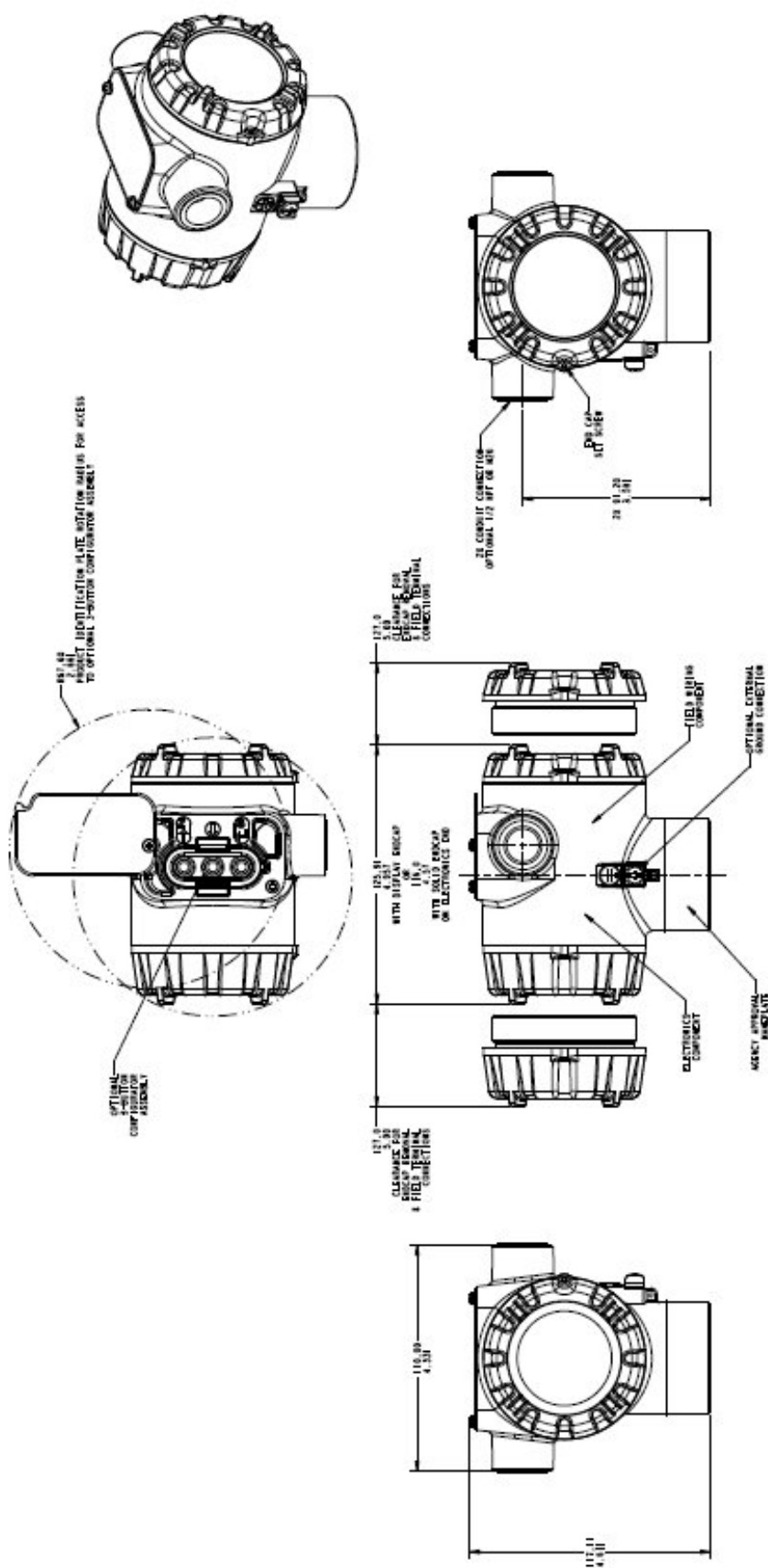


Figure 8 – STT850 no adapter housing dimensions

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 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.
List Price: Price equals the sum of prices for all selections made.

Key	I	II	III	IV	V	VI	VII	VIII	IX
STT850	-	-	-	-	-	-	-	-	X X X X

KEY NUMBER		Input Type		Availability Selection		
		Universal Input		STT850	*	
Table I		No of Inputs				
Input Details	Single				S	*
	Dual				T	e
Table II		Digital Output				
Digital Output	No				0	*
	Yes				1	a
TABLE III		Agency Approvals (see data sheet for Approval Code Details)				
Approvals	No Approvals Required				0	*
	FM Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof				A	*
	CSA Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof				B	*
	ATEX Explosion proof, Intrinsically Safe & Non-incendive				C	*
	IECEX Explosion proof, Intrinsically Safe & Non-incendive				D	*
	SAEx Explosion proof, Intrinsically Safe & Non-incendive				E	h
	INMETRO Explosion proof, Intrinsically Safe & Non-incendive				F	h
	NEPSI Explosion proof, Intrinsically Safe & Non-incendive				G	h
	KOSHA Explosion proof, Intrinsically Safe & Non-incendive				H	h
	EAC Explosion proof, Intrinsically Safe & Non-incendive				J	h
	CCoE Explosion proof, Intrinsically Safe & Non-incendive				P	h
TABLE IV		TRANSMITTER ELECTRONICS SELECTIONS				
a. Electronic Housing Material & Connection Type	Housing and Material		Connection	Lightning protection		
	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 none		DE Protocol Foundation Fieldbus			
c. Customer Interface Selections	Display		Ext Zero, Span & Config Buttons		Languages	
	None		None		None	
	None		Yes (Zero/Span Only)		None	
	Basic		None		English	
	Basic		Yes		English	
	Advanced		None		EN,GR,FR,IT,SP,RU,TU	
	Advanced		Yes		EN,GR,FR,IT,SP,RU,TU	
	Advanced		None		EN, CH, JP	
	Advanced		Yes		EN, CH, JP	

TABLE V	CONFIGURATION SELECTIONS			Availability Selection 
a. Application Software	Diagnostics			
	Standard Diagnostics			1 __ *
	Advanced Diagnostics - Rate of Change and Deviation Alarm			2 __ c
b. Output Limit, Failsafe & Write Protect Settings	Write Protect	Fail Mode	High & Low Output Limits ³	
	Disabled	High> 21.0mA _{dc}	Honeywell Std (3.8 - 20.8 mA _{dc})	_ 1 _ f
	Disabled	Low< 3.6mA _{dc}	Honeywell Std (3.8 - 20.8 mA _{dc})	_ 2 _ f
	Enabled	High> 21.0mA _{dc}	Honeywell Std (3.8 - 20.8 mA _{dc})	_ 3 _ f
	Enabled	Low< 3.6mA _{dc}	Honeywell Std (3.8 - 20.8 mA _{dc})	_ 4 _ f
	Enabled	N/A	N/A Fieldbus	_ 5 _ g
c. General Configuration	Factory Standard			_ _ S *
	Custom Configuration			_ _ C *

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

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

TABLE VII	ACCESSORY SELECTIONS	
a. Mounting Bracket	Bracket Type	Material
	None	None
	Flat Pipe Mounting Bracket	Carbon Steel
	Flat Pipe Mounting Bracket	316 SS
	Angle Pipe Mounting Bracket	Carbon Steel
	Angle Pipe Mounting Bracket	316 SS
	Wall Mounting Bracket	Carbon Steel
	Wall Mounting Bracket	316 SS
b. Customer Tag	Customer Tag Type	
	No customer tag	
	One Wired Stainless Steel Tag (Up to 4 lines 26 char/line)	
	Two Wired Stainless Steel Tag (Up to 4 lines 26 char/line)	
	One Wired Stainless Steel Blank Tag (Up to 4 lines 26 char/line)	
c. Unassembled Conduit Plugs & Adapters	Unassembled Conduit Plugs & Adapters	
	No Conduit Plugs or Adapters Required	
	1/2 NPT Male to M20 Female 316 SS Certified Conduit Adapter (qty 2)	
	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)	

TABLE VIII	Other Certifications and Options	
Certifications and Warranty	None - No additional options	
	Marine (LR)	
	MID approved transmitter - Contact tech support for specific MID approved ranges	
	Certificate of Conformance	
	Calibration Test Report & Certificate of Conformance	
	Certificate of Origin	
	SIL2/3 Certificate	
	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	

TABLE IX	Manufacturing Specials	
Factory	Factory Identification	

MODEL RESTRICTIONS

Restriction Letter	Available Only with		Not Available with	
	Table	Selection(s)	Table	Selection(s)
a	I	S		
	IV	_ H _		
c			IVb	_ D,F _
d			VIIa	1,3,5,6
e	II	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 _		
r	I	S	IVb	D,F
	IVa	C,D,G,H _		
	IVc	_ 0,A,D,E,H,J _	Vc	_ S _
b	Select only one option from this group			

FIELD INSTALLABLE REPLACEMENT PARTS

Description	Kit Number
Integrally Mounted Basic Indicator Kit (Compatible with all Electronic Modules)	50049911-502
Integrally Mounted Advanced Indicator Kit (compatible with all Electronic Modules)	50049846-503
Single Input Terminal Strip w/o Lightning Protection for HART or DE Modules	50086421-501
Dual Input Terminal Strip w/o Lightning Protection Kit for HART or DE Modules	50086421-502
Single Input Terminal Strip w/Lightning Protection for HART or DE Modules	50086421-503
Dual Input Terminal Strip w/Lightning Protection Kit for HART or DE Modules	50086421-504
Single Input Terminal Strip w/o Lightning Protection FFB/Profibus Module	50086421-507
Dual Input Terminal Strip w/o Lightning Protection FFB/Profibus Module	50086421-508
Single Input Terminal Strip w/Lightning Protection Kit for FFB/Profibus Module	50086421-509
Dual Input Terminal Strip w/Lightning Protection FFB/Profibus Module	50086421-510
HART Electronics Module Kit	50086423-501
HART Electronics Module w/connection for external configuration buttons	50086423-502
DE Electronics Module Kit	50086423-503
DE Electronics Module w/connection for external configuration buttons	50086423-504
FFB Electronics Module Kit	50086423-505
FFB Electronics Module w/connection for external configuration buttons	50086423-506

PRODUCT MANUALS

Description	Part Number
Product Manual STT850 Smart Temperature Transmitter User Manual - English	34-TT-25-03
Product Manual STT850 Smart Temperature Transmitter Safety Manual - English	34-TT-25-05
Product Manual STT850 Smart Temperature Transmitter HART/DE Communications Manual - English	34-TT-25-06
Product Manual STT850 Smart Temperature Transmitter Foundation Fieldbus Manual - English	34-TT-25-07

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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Specifications are subject to change without notice.

For more information
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visit www.honeywellprocess.com
Or contact your Honeywell Account Manager

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The Honeywell logo, consisting of the word "Honeywell" in a bold, red, sans-serif font.

34-TT-03-14
November 2020
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