

STT 3000 Temperature Transmitter Series STT170

Model Selection Guide

Instructions

- Choose Availability column based on Key Number.
- A dot (•) denotes unrestricted availability.
- Select the desired Key Number based on the desired communications protocol.
- Select options and approvals from Tables.

Key Number I II III IV V VI, options
 STT17_ - _ - _ - _ - _ - _ - _ , _



Key Number

Description	Selection	Availability				
4-20mA Output, RTD input	STT171	↓				
4-20mA Output, universal input	STT173		↓			
HART Protocol, 4-20mA output	STT17H			↓		
Digital output, Foundation Fieldbus protocol	STT17F				↓	
Configuration tool for STT171, 173 and 17H	STT17C					↓

Table I - Safety Approvals

Approval Body	Approval Type	Location or Classification					
None	No approval body certifications included		00	•	•	•	•
FM, CSA, ATEX	Intrinsically Safe ENTITY Non-Incendive	Class I, Div. 1, Groups A,B,C,D, T4 Class I, Zone 0/1; AEx ia IIC, T4 Class I, Div. 2, Groups A,B,C,D, T4	BS	•	•	•	•
	Intrinsically Safe ENTITY Non-Incendive	Class I, Div. 2, Groups A,B,C,D, T4 Class I, Zone 0/1; Ex ia IIC, T4 Class I, Div. 2, Groups A,B,C,D, T4		•	•	•	•
	* Intrinsically Safe Zone 0/1	Ex II 1 GD, EEx ia IIC, T4..T6 Ex II 2 (1) GD, T4..T6	BN				
	Non-Incendive Zone 2	Class I, Div. 2, Groups A,B,C,D, T4 Ex II 3 G, EEx nA [L] T4..T6				•	•

When installed in Field Mount Enclosure Table IV, E ___, or T ___

FM Approval	Intrinsically Safe ENTITY Non-Incendive	Class I, Div. 1, Groups A,B,C,D, T4 Class I, Zone 0/1; AEx ia IIC, T4 Class I, Div. 2, Groups A,B,C,D, T4	1G	e	e	e	e
CSA	Intrinsically Safe ENTITY Non-Incendive	Class I, Div. 2, Groups A,B,C,D, T4 Class I, Zone 0/1; Ex ia IIC, T4 Class I, Div. 2, Groups A,B,C,D, T4	2G	e	e	e	e
ATEX	* Intrinsically Safe Zone 0/1	Ex II 1 GD, EEx ia IIC, T4..T6 Ex II 2 (1) GD, T4..T6	3S	e	e	e	
	Non-Incendive Zone 2	Class I, Div. 2, Groups A,B,C,D, T4 Ex II 3 G, EEx nA [L] T4..T6	3N				e

* Ex II **GD** or II 2 (1) **GD** allows for installation in potentially explosive atmospheres caused by the presence of combustible dusts only when mounted in a metal enclosure of form B according to DIN 43729 (Head-Mount enclosure) that provides a degree of protection of at least IP 6X in accordance with EN 60529, that is suitable for the application and is correctly installed.

TABLE II - No Option

No Option	0	•	•	•	•	•
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TABLE III - Configuration & Certificates

Configuration	None - Factory Default Configuration Supplied	0 __	•	•	•	•	•
	Custom Transmitter Configuration with Printed Report **	T __	•	•	•	•	•
Calibration	Custom Transmitter Calibration with Printed Report **	C __	•	•	•		
Optional Certificates	No Option	_ 0 _	•	•	•	•	•
	No Certificate of Conformance/Origin	_ _ 0	•	•	•	•	
	Certificate of Conformance/Origin	_ _ R	•	•	•	•	

		Availability					
		STT17	1	3	H	F	C
		Selection	↓	↓	↓	↓	↓
Housing	No Housing Supplied	0__	•	•	•	•	•
	Field Mount Aluminum with Beige Epoxy Coating	E__	d	d	d	d	•
	Field Mount 316 Stainless Steel	T__	d	d	d	d	•
	Head Mount Type 4X housing - Beige	C__	g	g	g	g	•
Cable/Conduit Entry	Not Applicable - No Housing Supplied	_0_	•	•	•	•	•
	1/2" NPT Cable/ Conduit Entry	_N_	•	•	•	•	•
	M20 x 1.5 Cable/ Conduit Entry	_M_	•	•	•	•	•
Integral Meter	No Integral Meter Supplied	__0	•	•	•	•	•
	E.U. Meter for Field Mount Housing	__E	h	h	h	•	•

TABLE V - Optional Equipment

Mounting	No mounting bracket	0__	•	•	•	•	•
	Carbon steel pipe mounting bracket for 2" pipe	M__	e	e	e	e	•
	Stainless Steel mounting bracket for 2" pipe	S__	e	e	e	e	•
	Spring loading mounting set	L__	f	f	f	f	•
	DIN rail mounting clip (top hat or G rail)	D__	f	f	f	f	•
M20 adaptors	No adaptors required	_0_	•	•	•	•	•
	1 adaptor for M20 x 1.5 wiring entry	_1_	•	•	•	•	•
	2 adaptors for M20 x 1.5 wiring entry	_2_	•	•	•	•	•
3/4"NPT adaptors	1 adaptor for 3/4"NPT wiring entry	_3_	•	•	•	•	•
Lightning Protection	No lightning protection supplied	__0	•	•	•	•	•
	Externally Mountable to Field Mount Housing	__L	•	•	•	•	•
	Internal lightning protection	__S	•	•	•	•	•

TABLE VI - Additional Features

No Selection		00	•	•	•	•	•
Optional Extended	Additional Warranty - 1 year	W1	•	•	•	•	•
Customer Tagging	316 SS Wired-on Customer I.D. Tag (4 lines, 28 chars. per line, customer specified information)	TG	•	•	•	•	b
	316 SS Wired-on Customer I.D. Tag (blank)	TB	•	•	•	•	
Operator's Manual	STT171 Version; English, French, German Language	M1	•	•	•	•	•
	STT173 Version; English, French, German Language	M3	•	•	•	•	•
	STT17H Version; English, French, German Language	MH	•	•	•	•	•
	STT17F Version; English, French, German Language	MF	•	•	•	•	•

RESTRICTIONS

Restriction Letters	Available Only With		Not Available With	
	Table	Selection	Table	Selection
b	VI	Select only one option from this group		
d	IV	_N_		
e	IV	E __, or T __		
f	IV	0__		
g	IV			_OE
h	I	00		
	IV	E __, or T __		

ACCESSORIES

	Part Number
DIN rail clip	50017850-001 • • • • •

** If Custom Configuration option "T" or the Custom Calibration option "C" is ordered, the configuration or calibration information required must be entered as a note on the order. Any of the following elements can be included, based on the selected model number:

(STT171, STT173, STT17H) Tag Number, CJC, Sensor Type, Sensor Wiring, Temperature Units, URV/LRV, Output Range, Output Limits, Sensor Error Action, Response Time.

(STT17F) Tag Number, Sensor Type, URV/LRV, Burnout- High or Low, Response Time

Ordering Example: STT17H-BN-0-000-EN0-000-00