

## STT 3000 Temperature Transmitter Series STT250

## Model Selection Guide

### Instructions

- Choose availability column based on mounting configuration.
- A dot (•) denotes unrestricted availability. A letter denotes restricted availability.
- Blank denotes unavailable - choose alternate mounting. Restrictions follow Table VII.
- 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      VII  
 STT25\_ - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]



### HOW WILL THE UNIT BE MOUNTED?

Module only (no housing), to be DIN rail or wall mounted

Module to be "head mounted" directly to the sensor in smaller housing

Module to be "field mounted" in Explosion-Proof housing remotely from or directly to the sensor

### Key Number

Description	Selection	Availability		
		•	•	•
Smart Temperature Transmitter Module				
4-20mA Output, SFC/SCT Configurable	STT25M	•	•	•
HART 5, Protocol, 4-20mA Output	STT25H	•	•	•
HART 6, Protocol, 4-20mA Output	STT25S	•	•	•
Digital DE/ 4-20mA Output, for Digital Integration	STT25D	•	•	•
Dual input, HART Protocol, 4-20mA output	STT25T	•	•	•
All modules carry the following approvals: CE Mark for compliance to EN 50081-2 and 50082-2 Russian Certificate of Pattern Approval No. 2064 of Jan. 1998 Choose additional safety approvals required in Table VII				

**TABLE I - Sensor, Probe and Thermowell Accessories**

No Integral Sensor Probe or Thermowell Supplied	0	•	•	•
---	---	---	---	---

**TABLE II - Transmitter Housing and Integral Meters** (Reference EN01-6032 for details)

Housing	No Housing Supplied	0 _ _			•
	Field Mount (2) Explosion-Proof Aluminum with Beige Epoxy Coating	E _ _	•		
	Field Mount (2) Explosion-Proof 316 Stainless Steel	T _ _	•		
	Head Mt Type 4X housing - Beige	C _ _		•	
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	•	•	•
	Analog Meter for Field Mount Housing	_ _ M	•		
	E.U. Meter for Field Mount Housing	_ _ E	h		
	Smart Meter for Field Mount Housing (3)	_ _ S	i		

(2) With a Field Mount Housing, 20 characters max. of customer information is available on the nameplate at no charge.  
(See 13:STT-OE pages for ordering instructions.)

(3) For the STT25D and STT25M transmitters

**HOW WILL THE UNIT BE MOUNTED?**

Availability

Module only (no housing), to be DIN rail or wall mounted

Module to be "head mounted" directly to the sensor in smaller housing

Module to be "field mounted" in Explosion-Proof housing remotely from or directly to the sensor

**TABLE III - Configuration, Tagging and Manual**

		Selection	Availability		
Configuration	None - Factory Default Configuration Supplied	0 __	•	•	•
	Transmitter Configuration (See 13:STT-OE pages for choices)	T __	•	•	•
Customer Tagging (4)	No Tagging Required	_ 0 _	•	•	•
	316 SS Wired-on Customer I.D. Tag (4 lines, 28 chars. per line, customer specified information)	_ T _	•	•	
	316 SS Wired-on Customer I.D. Tag (blank)	_ B _	•	•	
Operator's Manual (5)	None	_ _ 0	•	•	•
	English Language Version	_ _ E	•	•	•
	French Language Version	_ _ F	•	•	•
	Spanish Language Version	_ _ S	b	b	b
	Chinese Language Version	_ _ C	b	b	b

**TABLE IV - Optional Equipment**

Mounting Arrangement	No Mounting Arrangement Supplied	0 __	•	•	•
	Carbon Steel Mounting Bracket for 2" Pipe	M __	•		
	Stainless Steel Mounting Bracket for 2" Pipe	S __	•		
	Spring Loading Mounting set	L __		•	•
	DIN Rail Mounting via Clip (to Top Hat or "G" Rail)	D __			•
316 SS Conduit Adaptor for Wiring Entry	No Adaptor(s) Supplied	_ 0 _	•	•	•
	1/2" NPT to M20 x 1.5   1 Adaptor	_ 1 _	•	•	
	(EEx d IIC approved)   2 Adaptors	_ 2 _	•	•	
	1/2" NPT to 3/4" NPT   1 Adaptor	_ 3 _	•		
Lightning Protection	No Lightning Protection Supplied	_ _ 0	•	•	•
	Externally Mountable to Field Mount Housing	_ _ L	e		
	Internal Surge/ Lightning Protection	_ _ S	•		

**TABLE V - Optional Extended Warranty Coverage & Certificates**

Optional Extended Warranty	Standard Warranty	0 __	•	•	•
	Additional Warranty - 1 year	1 __	•	•	•
	Additional Warranty - 2 years	2 __	•	•	•
	Additional Warranty - 3 years	3 __	•	•	•
Optional Certificate (5)	No Transmitter Configuration/ Calibration Certificate	_ 0 _	•	•	•
	Transmitter Configuration/ Calibration Certificate	_ D _	•	•	•
	No Certificate of Conformance/ Origin	_ _ 0	•	•	•
	Certificate of Conformance/ Origin	_ _ C	•	•	•

**TABLE VI - Additional Features**

SIL2	No SIL2 - TUV Certified Transmitter	00	•	•	•
	SIL2 - TUV Certified Transmitter (requires HART 6)	S2	d	d	d

(4) Full model number does not appear on module or head mount housing. If model number is to appear on unit, order wired on tag.

(5) Chosen Operator's Manuals and chosen Certificates are automatically shipped with unit. See 13:STT-OE pages for additional manuals and alternate shipping.

**HOW WILL THE UNIT BE MOUNTED?**

Module only (no housing), to be DIN rail or wall mounted

Module to be "head mounted" directly to the sensor in smaller housing

Module to be "field mounted" in Explosion-Proof housing remotely from or directly to the sensor

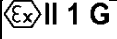
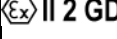

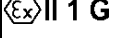
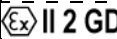
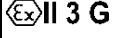
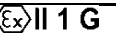
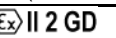
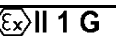
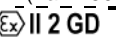
Availability

**TABLE VII - Safety Approvals (6)**

Approval Body	Approval Type	Location or Classification	Selection			
None	No approval body certifications included		00	•	•	•
Factory Mutual	Explosion-Proof Dust Ignition-Proof	Class I, Div. 1, Groups A,B,C,D Class II, III Div. 1, Groups E,F,G	1C	f		
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G				
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D Suitable for Class II, III, Div. 2, Groups F, G				
	Outdoor Location	Enclosure Rated NEMA 4X				
	Explosion-Proof Dust Ignition-Proof	Class I, Div. 1, Groups B,C,D Class II, III, Div. 1 Groups E,F,G	1J	•		
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G				
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D Suitable for Class II, III, Div. 2, Groups F, G				
	Outdoor Location	Enclosure Rated NEMA 4X				
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G	1G	•		
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D Suitable for Class II, III, Div. 2, Groups F, G				
	Outdoor Location	Enclosure Rated NEMA 4X				
	Intrinsically Safe Non-Incendive	Class I, Div. 1, Groups A,B,C,D Class I, Div. 2, Groups A,B,C,D	1G		•	•
CSA	Explosion-Proof Dust Ignition-Proof	Class I, Div. 1, Groups B,C,D Class II, III, Div. 1, Groups E,F,G	2J	•		
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G				
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D Suitable for Class II, III, Div. 2, Groups F, G				
	Outdoor Location	Enclosure Rated Type 4X				
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G	2G	•		
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D Suitable for Class II, III, Div. 2, Groups F, G				
Outdoor Location	Enclosure Rated Type 4X					
Intrinsically Safe Non-Incendive	Class I, Div. 1, Groups A,B,C,D Class I, Div. 2, Groups A,B,C,D	2G		•	•	

continued next page

TABLE VII - Safety Approvals (6) Continued

Approval Body	Approval Type	Location or Classification	Selection			
ATEX*	Intrinsically Safe Zone 0/1	 Ex ia IIC T6 (Ta = -50°C to +40°C) T5 (Ta = -50°C to +55°C) T4 (Ta = -50°C to +85°C) (Module)	3S	•	•	•
	Flameproof, Zone 1	 Ex d IIC T6 (Ta = -50°C to +80°C) T5 (Ta = -50°C to +85°C) Ex tD A21 T80°C (Ta = 80°C) T95°C (Ta = 85°C) Enclosure rated IP 66/67	3D	p		
	Non-Sparking Zone 2	 Ex nA, IIC T6*	3N	•	•	•
	Multiple Marking** Int. Safe, Zone 0/1, or Flameproof, Zone 1, or Non-Sparking, Zone 2	 Ex ia IIC T6 (Ta = -50°C to +40°C) T5 (Ta = -50°C to +55°C) T4 (Ta = -50°C to +85°C) -----  Ex d IIC T6 (Ta = -50°C to +80°C) T5 (Ta = -50°C to +85°C) Ex tD A21 T80°C (Ta = 80°C) T95°C (Ta = 85°C) -----  Ex nA, IIC T6 (Ta = -50°C to +85°C) (Honeywell) Enclosure Rated IP 66/67	3H	p		
SAEx (South Africa)	Intrinsically Safe Zone 0/1	SAEx S/08-371X  Ex ia IIC T6 (Ta = -50°C to +40°C) T5 (Ta = -50°C to +55°C) T4 (Ta = -50°C to +85°C)	Z2	•	•	•
	Flameproof, Zone 1	SAEx S/08-372X  Ex d IIC T6 (Ta = -50°C to +80°C) T5 (Ta = -50°C to +85°C) Ex tD A21 T80°C (Ta = 80°C) T95°C (Ta = 85°C) Enclosure rated IP 66/67	ZD	•	•	•
	Intrinsically Safe Zone 0/1 and Flameproof, Zone 1	SAEx S/08-371X  Ex ia IIC T6 (Ta = -50°C to +40°C) T5 (Ta = -50°C to +55°C) T4 (Ta = -50°C to +85°C) ----- SAEx S/08-372X  Ex d IIC T6 (Ta = -50°C to +80°C) T5 (Ta = -50°C to +85°C) Ex tD A21 T80°C (Ta = 80°C) T95°C (Ta = 85°C) Enclosure rated IP 66/67	ZA	•	•	•
IECEX	Flameproof, Zone 1 (with IS transmitter)	Ex d IIC; T6 (Ta = -50 to +80°C) T5 (Ta = -50 to +85°C) Ex tD A21 IP6X T80°C (Ta = -50 to +80°C) Ex tD A21 IP6X T95°C (Ta = -50 to +85°C)	CB	•	•	•
	Intrinsically Safe Zone 0/1	Ex ia IIC; T6 (Ta = -50 to +40°C) T5 (Ta = -50 to +55°C) T4 (Ta = -50 to +85°C)	CS	•	•	•
INMETRO (Brazil)	Flameproof, Zone 1	BR Ex d IIC T6, T5, T4 Enclosure rated IP 66/67	6D	p		
	Intrinsically Safe, Zone 0/1	BR Ex ia IIC T6, T5, T4	6S	•	•	•

(6) The module itself is rated intrinsically safe, IP20. An appropriately rated enclosure is required for Outdoor and Dust locations.

\* Module must be installed in IP54 or better housig for Zone 2 approval validity.

\*\* The user must determine the type of protection required for installation of the equipment. The user shall then check the box (  ) adjacent to the type of protection used on the equipment certification label. Once a type of protection has been checked on the label, the equipment shall not be reinstalled using any of the other certification type.

**RESTRICTIONS**

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
d	Key No.	STT25S		
e			VII	3D
f	II	EN0, TN0,		
h	Key No.	STT25H, STT25T, STT25M,STT25S		
i	Key No.	STT25M, STT25D		
p	II	E __, T __		

**Notes:** (6) The module itself is rated intrinsically safe, IP20. An appropriately rated enclosure is required for Outdoor and Dust locations.  
 See 13:STT-9 or Operator's Manual EN11-6190 for part numbers.  
 See 13:STT-OE pages for Order Entry Information including tagging, transmitter configuration, manuals, certificates, drawings and SPINS.  
 To request a quotation for a non-published "special", fax RFQ to Marketing Applications at (1) 602 313-6155.

**Ordering Example: STT25M-0-000-000-000-000-00-1C**