

# STT 3000 Smart Temperature Transmitter Specifications

Foundation™ Fieldbus Model STT35F

EN01-6083 April 2012



## Introduction

Honeywell's microprocessor based STT35F Smart Temperature Transmitters convert a primary temperature sensor input into a standard FOUNDATION™ Fieldbus output signal on a 2 wire signal plus power multidrop connection.

These universal temperature input models readily accept signals from a wide variety of industry standard thermocouples (T/Cs) or resistance temperature detectors (RTDs) as well as basic milliVolt or Ohms sensors. The output signal is either proportional to the measured variable or linearized to temperature.

The STT35F output conforms to the low speed (H1) of the Fieldbus Physical Layer specification IEC 61158-2 (1993). The other protocol layers conform to the FOUNDATION Fieldbus section of the 8 part IEC 61158 standard. This is supported by all the worldwide instrumentation suppliers and enables multidrop field instruments to be powered via a single wire pair and communicate measurement, control, configuration and diagnostic data at 31.25kbps.

## STT Features

- Includes Fieldbus Foundation standard Function blocks to ensure full interoperable operation - Analog Input (AI), Control Bloc (PID), Resource Block (RB) and Transducer Block (XB).
- Includes Link Master capability to assume Link Active Scheduler (LAS) role of controlling the deterministic message communications in the event of primary LAS loss.
- Integral Digital Meter available without the need for an additional bus connection or power.
- Fieldbus Simulate link available for loop commissioning/ troubleshooting.



Figure 1 – STT35F module and Transmitter in Field Mount Housing with display indicator.

- Includes Flash Memory for ease of software upgrade over the Fieldbus for changes or improvements in this emerging technology.
- Post read validation of the measured signal before providing fresh output.
- Includes sensor break detection on all input wires.
- Configuration of the STT35F Function Blocks and the Fieldbus Application Parameters can be done with the National Instruments Configuration Toolkit or any other Fieldbus Foundation registered configurator.
- Single model accepts input signals from a choice of primary sensors to satisfy varying applications requirements with minimum transmitter inventory.
- Added Smart features include reading of the highest and lowest inputs, external cold junction compensation temperature at an isothermal block and engineering units displayed in degrees C, F, K, or R plus milliVolt and Ohms.

**STT Features (continued)**

- Smart transmitter personality with local or remote interfacing means significant manpower efficiency improvements in commissioning, start-up, and ongoing maintenance functions. Write protect link included to safeguard configuration settings.
- Suitable for DIN rail mounting or remote field mounting in a flameproof housing.
- Unique, patented thermocouple tip resistance measurement gives predictive warning of imminent sensor failure for preventative maintenance.
- Provides true differential temperature measurement of thermocouple or RTD inputs by individual linearization of each sensor reading and then computing the difference.
- Suitable for true 4-wire Pt100 measurement (or 3- or 2-wire).
- Write protect link included to safeguard configuration settings.
- Supports dual thermocouple sensor inputs for redundant sensor operation.
- Surge/ lightning protection options can be installed internally in housing or externally in conduit.
- Standard digital cold-junction compensation function provides accurate and reliable temperature measurement over a wide ambient operating range.
- The STT35F FOUNDATION Fieldbus Temperature Transmitter is approved for use in systems powered by FISCO and FNICO power supplies. FISCO, Intrinsically Safe, and FNICO, Nonincendive, parameters in addition to Entity parameters are included on the Control Drawing and in the User's Manual.

**Description**

The STT35F transmitters are suitable as a direct replacement for any conventional or Smart temperature transmitter in use today. Their memory contains the characteristics of most commonly used temperature sensors.

This means that you can use the Fieldbus configuration tool to configure the transmitter for any of these sensors and it will automatically correct for their associated non-linearity.

The transmitter module can also be installed on a standard DIN rail (to EN50022) or remotely mounted in a flameproof housing designed for either surface or two-inch pipe stand mounting.

Transmitters can be preconfigured at the factory to your exact specifications or they will be shipped with factory default configuration - ready to accept your own configuration. The H1 low speed FOUNDATION Fieldbus protocol is aimed at the replacement of 4-20mA conventional or Smart transmitters by multidrop digital field devices with signal and power carried over a single wire pair and also meeting intrinsic safety requirements. Transmitters can be preconfigured at the factory to your exact specifications or they will be shipped with factory default configuration - ready to accept your own configuration.

Configuration of the field devices and the bus operating parameters can be performed from the system console or from Windows 95 or NT PC based configuration tools such as the National Instruments Configurator. The driving force behind Fieldbus is increased field intelligence and capabilities and these results in a wide range of available configuration selections such as the gain, integral, derivative settings in the PID control block, or its mode of operation - Manual, Automatic or cascade, or built in alarm settings etc.

Performance under Rated Conditions							
Input Type	Digital Accuracy for Maximum Range Limits	Maximum Range Limits		Digital Accuracy for Normal Range Limits	Normal Range Limits		Standards
		° C	° F		° C	° F	
<b>RTD:</b>	<b>% of Max Span</b>						
Pt100	0.01	-200 to 850	-328 to 562	0.1	-200 to 450	-328 to 842	IEC751:1986(=0.00385)
Pt200	0.01	-200 to 850	-328 to 562	0.1	-200 to 450	-328 to 842	IEC751:1986(=0.00385)
Pt500	0.02	-200 to 850	-328 to 562	0.1	-200 to 450	-328 to 842	IEC751:1986(=0.00385)
Pt100J	0.01	-200 to 640	-328 to 184	0.1	-200 to 450	-328 to 842	JISC 1604-81(=0.00392)
Ni500	0.04	-80 to 150	-112 to 302	0.1	-50 to 150	-58 to 302	Honeywell Type A
Cu 10	0.37	-20 to 250	-4 to 482	1.0	-20 to 250	-4 to 482	General Electric
Cu 25	0.19	-20 to 250	-4 to 482	0.5	-20 to 250	-4 to 482	General Electric
<b>T/C:</b>							
B	0.14	200 to 1820	392 to 3308	1.0	550 to 1820	1022 to 3308	IEC 584-1 (ITS-90)
C	0.03	0 to 2300	32 to 4172	0.6	0 to 1650	32 to 3002	IPTS 68
D	0.03	0 to 2300	32 to 4172	0.6	330 to 1370	626 to 2498	IPTS 68
E	0.04	-200 to 1000	-328 to 1832	0.2	0 to 1000	32 to 1832	IEC 584-1 (ITS-90)
J	0.04	-200 to 1200	-328 to 2192	0.2	0 to 800	32 to 1472	IEC 584-1 (ITS-90)
K	0.04	-200 to 1370	-328 to 2498	0.3	-120 to 1370	-191 to 2498	IEC 584-1 (ITS-90)
N	0.06	-200 to 1300	-328 to 2372	0.3	0 to 1300	32 to 2372	IEC 584-1 (ITS-90)
R	0.09	-50 to 1760	-58 to 3200	0.5	500 to 1760	932 to 3200	IEC 584-1 (ITS-90)
S	0.08	-50 to 1760	-58 to 3200	0.5	500 to 1760	932 to 3200	IEC 584-1 (ITS-90)
T	0.14	-250 to 400	-418 to 752	0.2	-100 to 400	-148 to 752	IEC 584-1 (ITS-90)
NiNiMoly	0.03	0 to 1300	32 to 2372	0.3	780 to 1300	1436 to	G.E. (IPTS - 68)
Radiamatic	0.6	420 to 1800	788 to 3272	0.7	780 to 1800	1436 to	Honeywell (RH)
milliVolts	0.01	-20 to 120mV		8 V	-10 to 45 mV		
Ohms	0.01	0 to 2000Ω		0.15Ω	to 2000Ω		

Note that the above Accuracy values are available merely by selecting the sensor type and range (i.e. without user calibration). Improvements of up to 2 times can be obtained for the accuracy by calibrating to the required LRV/URV values with simulated inputs from a calibrator box.

All STT35F units pass through 20 hours of Environmental Stress Screening (ESS) by fast cycling between -40 and +85°C to ensure maximum product reliability. During this ESS process, the ambient temperature compensation coefficients are determined for individual units and burned in transmitter memory to provide maximum performance over a wide range of operating conditions.

## Specifications

Operating Conditions				
Parameter	Reference conditions	Rated Condition	Operative limits	Transportation and storage
<b>Ambient temperature</b>	23°C ± 2 73°F ± 4	-40 to 85°C -40 to 185°F	-40 to 85°C * -40 to 185°F	-50 to 100°C -58 to 212°F
<b>Humidity</b>				
<b>Rack Mounting %RH</b>	10 to 55	5 to 95	5 to 100	5 to 100
<b>Mounted in EP %RH housing</b>	10 to 55	5 to 100	5 to 100	5 to 100
<b>Power supply Current draw</b>	18mA constant current draw.			
<b>Supply Voltage and load Resistance</b>	9.0 to 35Vdc at the transmitter terminals Dependent on number/ type of bus devices.			
<b>Vibration</b>	Maximum of 4g over 15 to 200Hz. (restricted to 3g with indication meter)			
<b>Shock</b>	Maximum of 40g			

\* = Short term operative limit of -50°C (-58°F)

Additional Specifications	
<b>Cold Junction Accuracy</b> Total Reference Accuracy	± 0.25°C Digital Accuracy of input + CJ Accuracy (T/Cs only) (example: transmitter with thermocouple Type J sensor and 0 to 200°C range Total Reference Accuracy = 0.2 + 0.25 = 0.45°C
<b>Digital Ambient Temperature Effect</b> (per 10°C change from 20°C reference)	RTDs or Ohms : 0.029% of reading T/Cs or mV : 0.042% of reading
<b>Cold Junction Rejection Effect</b>	60:1 for changes from 23°C ambient
<b>Total Output Ambient Temperature Effect (ATE)</b>	Digital ATE + CJ rejection effect (T/Cs only)
<b>Power Supply Voltage Effect</b>	0.005% of span per Volt

Parameter	
<b>Description</b>	
<b>Adjustment Range</b>	No limits to adjustments between the Maximum range and 1 eng. unit e.g. 1°C
<b>Damping time constant</b>	Adjustable from 0 to 102 seconds digital damping
<b>Input to output galvanic isolation</b> <b>Input &amp; output common mode isolation</b>	Meets dielectric strength test of 1400Vac rms (50/60Hz) 2,000Vdc for 1 minute. Withstands dielectric test of 700Vac rms or 1,000 Vdc for 1 minute.
<b>Common Mode Rejection</b>	120dB (1 million to 1) from 50Hz to 50kHz
<b>Series Mode Rejection</b>	40dB (100 to 1) for 50 or 60Hz ±0.5Hz (with internal software filter set to local power line frequency)
<b>EMC compliance</b>	In compliance with 89/336/EEC, Electro Magnetic - Compatibility (EMC) Directive

Parameter	
<b>RFI Rejection</b>	±0.1% of span at 30V/m over 20 to 1,000MHz in explosion proof housing with shielded cables
<b>Stability/Time Drift</b>	0.05% of maximum span per year. Autocalibration against internal reference every second

### Physical Mounting and Construction

Parameter	Description
<b>Mounting</b>	DIN rail (top hat or G rail) Explosion Proof/Flameproof housing with surface mounting or 2- inch pipe mounting (IP 66/NEMA 4X Rating) The FM/CSA explosion proof housing meets the applicable requirements of NEMA 7 and 9
<b>Wiring</b>	Screw Terminals - M3.5x6.7mm nickel coated brass. Accepts up to 12AWG, 16AWG recommended
<b>Net Weight</b>	Transmitter for DIN rail mount - 0.5kg (1.1 pounds) Transmitter in EP or XC housing - 1.6kg (3.6 pounds) Transmitter + indicator in housing - 2.4kg (5.2 pounds)
<b>Materials of construction</b>	Transmitter module - Aluminum housing with baked on polyester paint cover. Noryl terminal block. EP housing – Aluminum housing with baked on epoxy-polyester hybrid paint cover (beige) XC housing - Aluminum housing with baked on 2 coats epoxy resin cover (beige) ST02 housing - Aluminum housing with baked on 2 coats epoxy resin cover (red) 316 Stainless Steel housing available as a special.
<b>Dimensions</b>	See <a href="#">Fig 3</a>
<b>Sensor/ cable entry</b> (EP, XC or ST02 housing)	1/2 NPT electrical connection with optional adapters for M20x1.5, or 3/4 inch NPT

## Physical Mounting and Construction

### Thermowell & Probe Availability

STT35F can be supplied integrally mounted with any of the previously listed standard resistance temperature devices (RTDs) and thermocouple (TCs) elements.

#### Probe Types:

1/4" Rigid or spring loaded RTDs or T/Cs in Inconel or Stainless

Steel sheaths in standard lengths from 3" to 24" (other lengths by request).

Standard or heavy duty service.

Locally mounted to the STT350 housing or remotely mounted into explosion-proof mounting heads.

With (or without) probe lag hardware : Hex nipple, Straight nipple

or Double lag and Union connections.

Single or dual element availability; grounded or ungrounded

Additionally, the following types of Thermowells can also be provided as an integral thermal solution :

#### Thermowell Materials:

Carbon Steel, 304SS, 316SS, 316L SS, 446SS, Hastelloy B, Hastelloy C, Monel, Inconel 600

(other materials by request).

#### Thermowell Types:

Threaded well, Flanged well, or Socket well, (with or without thermowell lag extensions).

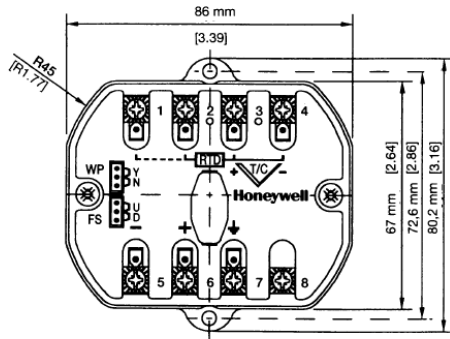
#### Flange Types:

Raised Face, Flat Faced and Ring Type Joint flange availability in 1", 1.5", 2" or 3" sizes.

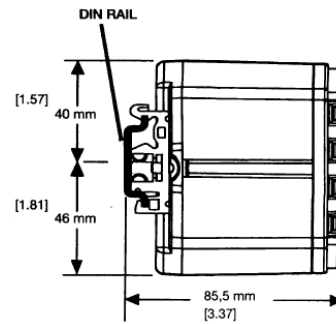
#### Flange ratings:

ANSI 150, 300, 600, 900 and 1500 ratings.

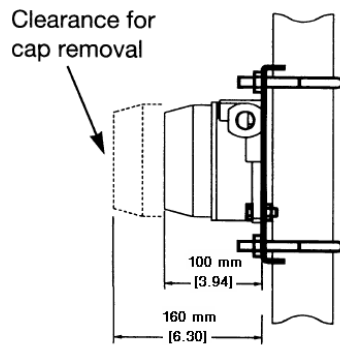
**Module – front view**



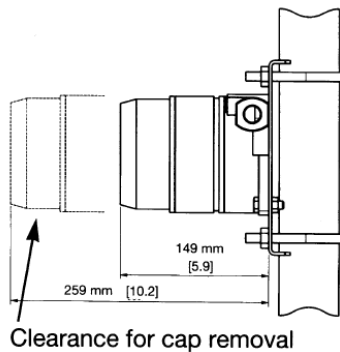
**Module +DIN clip**



**EP Housing - side view**



**Housing with integral meter**



**EP Housing and Mounting Bracket**

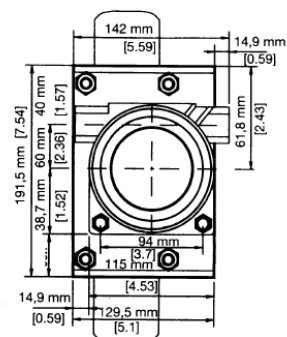


Figure 3 — STT350 Transmitter and Optional Flameproof Housing Dimensions –reference only – mm (inches)

**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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Model Selection Guides are subject to change and are inserted into the specifications as guidance only. Prior to specifying or ordering a model check for the latest revision Model Selection Guides which are published at:

<http://hpsweb.honeywell.com/Cultures/en-US/Products/Instrumentation/ProductModelSelectionGuides/default.htm>

**Honeywell Model Selection Guide**

**STT 3000 Temperature Transmitter  
Models STT350 & STT35F Fieldbus**

**Model Selection Guide**



**Instructions**

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection from each table using the column below the proper arrow.
- A dot (•) denotes unrestricted availability. A letter denotes restricted availability.
- Restrictions follow Table VII.

Key Number      I      II      III      IV      V      VI      VII

STT35\_ - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

**KEY NUMBER**

Description		Selection	Availability	
STT350 Smart Temperature Transmitter Module (4-20mA/DE) *		STT350	↓	
STT35F Fieldbus Temperature Transmitter Module *		STT35F		↓
All modules carry the following approvals: (See Approvals Table VII for more information)				
CE Mark:	All modules carry CE Mark and are in compliance with EN 50081-2 and 50082-2.			
Russian Certificate of Pattern Approval No. 2064 of Jan. 1988.				

\* Use of STT350/35F within Class II or III, Division 1 or 2, Groups E, F and G requires the use of explosion-proof field mount housinga option.

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

No Integral Sensor Probe or Thermowell Supplied	0	•	•
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**TABLE II - Transmitter Housing and Integral Meters** (Select approval body certification in Table VII)

Explosion-Proof Field Mount Housing (Note 2)	No Housing Supplied	00 __	•	•
	Aluminum with a Beige Epoxy-Polyester Hybrid Coating	EP __	•	•
	For Stainless Steel or Red Epoxy Painted Housing, select Table II EP __ and appropriate Table VI code.			
Integral Meter (Note 3)	No Meter Supplied	__ 00	•	•
	Analog Meter for Field Mount Housing	__ ME	j	
	Digital Meter for Field Mount Housing	__ SM	j	
	Fieldbus Digital Meter for Field Mount Housing	__ FM		j

**TABLE III - Configuration & Tagging**

Configuration	None - Factory Default Configuration Supplied	00 __	•	•
	Transmitter Configuration (see 13:STT-OE-5 for choices)	TC __	•	
	Transmitter Configuration - (Fieldbus)	FC __		•
Customer Tagging (Note 4)	No Tagging Requested	__ 00	•	•
	316 SS Wired-on Customer I.D. Tag - (4 lines, 28 characters per line, customer specified information)	__ TG	j	j
	316 SS Wired-on Customer I.D. Tag (blank)	__ TB	j	j

**Note 1:** Specify 8 digit customer I.D. when probe/w ell selected. See Price Pages 13:TP-1 to 16 for sensor/w ell pricing.

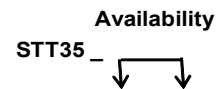
**Note 2:** With a housing, 20 characters max. of customer information is available on the nameplate at no charge. (See 13:STT-OE-5 for ordering instructions.)

**Note 3:** Remote Meter available as Model RMA300 (See Price Page 13:RM-1.)

**Note 4:** Replaces Selection \_\_\_\_\_US



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**TABLE IV - Optional Equipment**

		Selection	0	F	
Mounting Arrangement	No Mounting Arrangement Supplied	00_ _ _ _ _	•	•	
	DIN Rail Mounting via 2 Clips (to Top Hat or "G" Rail)	DR_ _ _ _ _	k	k	
	Carbon Steel Mounting Bracket for 2" Pipe	MB_ _ _ _ _	j	j	
	Stainless Steel Mounting Bracket for 2" Pipe	SB_ _ _ _ _	j	j	
316 SS Conduit Adaptor for Wiring Entry	No Adaptor(s) Supplied - 1/2" NPT Conduit Connection		__ 0 _ _ _ _	•	•
	1/2" NPT to M20 x 1.5 (EEx d IIC Approved)	1 Adaptor	__ 1 _ _ _ _	•	•
		2 Adaptors	__ 2 _ _ _ _	•	•
	1/2" NPT to 3/4" NPT	1 Adaptor	__ 3 _ _ _ _	•	•
Lightning Protection	No Lightning Protection Supplied		__ __ 00 _ _	•	•
	External Lightning Protection - Mountable to Housing		__ __ LP _ _	j	j
	Internal Surge/Lightning Protection		__ __ SP _ _	j	j
Operator/User Manual	None		__ __ __ __ 00	•	•
	English Version (for STT35F Only)		__ __ __ __ EF		•
	English Version (for STT350 Only) <sup>(4)</sup>		__ __ __ __ EN	•	
	French Version		__ __ __ __ FR	•	
	Spanish Version		__ __ __ __ SP	•	

**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 _ _	•	•
	Lifetime Warranty - 15 years	L _ _	•	•
Optional Certificate (Note 5)	No Transmitter Configuration/ Calibration Certificate	_ 0 _	•	•
	Transmitter Configuration/ Calibration Certificate (D-0097-RD.A)	_ D _	•	•
	No Certificate of Conformance/ Origin	_ _ 0	•	•
	Certificate of Conformance/ Origin (D-0098-RD.A)	_ _ C	•	•

**TABLE VI - Additional Features**

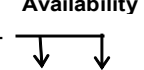
No Selection	0000	•	•
Red Epoxy Painted Housing Cap	ST01	j	j
Red Epoxy Painted Explosion-Proof Housing (Note 6)	ST02	g	g
316 Stainless Steel Explosion-Proof Housing (Note 6)	ST07	g	g

**Pricing Table A**







Table VI	Table II
ST07	EP00
	EPME
	EPSM
	EPFM

**Note 5:** Installation Guide, chosen Operator's Manuals and chosen Certificates are automatically shipped with unit.  
 See 13:STT-OE-7 for additional manuals and alternate shipping.

**Note 6:** Must be ordered with Table II EP \_\_.

Availability  
STT35 - 

**TABLE VII - Safety Approval Body Selection Appearing on Housing Nameplate**

Approval Body	Approval Type	Location or Classification	Selection	0	F
None	No approval body certifications included		00	•	•
FM Approvals	Explosion-proof	Class I, Div. 1, Groups A,B,C,D	1C	f	f
	Dust-Ignition-proof	Class II, III Div. 1, Groups E,F,G			
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G FISCO Field Device (STT35F Only)			
	Nonincendive Suitable for Outdoor Location	Class I, Div. 2, Groups A,B,C,D Class II, III, Div. 2, Groups F, G Enclosure Type 4X			
	Explosion-proof	Class I, Div. 1, Groups B,C,D (with Indicator)	1J	j	j
	Dust-Ignition-proof	Class II, III, Div. 1 Groups E,F,G			
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G FISCO Field Device (STT35F Only)			
	Nonincendive Suitable for Outdoor Location	Class I, Div. 2, Groups A,B,C,D Class II, III, Div. 2, Groups F, G Enclosure Type 4X			
Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G FISCO Field Device (STT35F Only)	1G	m	m	
Nonincendive	Class I, Div. 2, Groups A,B,C,D				
CSA	Explosion-Proof	Class I, Div. 1, Groups B,C,D	2J	j	j
	Dust Ignition-Proof	Class II, III, Div. 1, Groups E,F,G			
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G FISCO Field Device (STT35F Only)			
	Suitable for Outdoor Location	Class II, III, Div. 2, Groups F, G Enclosure Type 4X			
ATEX*	Intrinsically Safe, Zone 0/1	 II 1 G Ex ia IIC T4, T5, T6 FISCO Field Device (STT35F Only) (Module)	3S	•	•
	Flameproof, Zone 1	 II 2 G Ex d IIC T5, T6 Enclosure rated IP 66/67	3D	j	j
	Non-Sparking, Zone 2	 II 3 G Ex nA, T5, T6, Zone 2 FISCO Field Device "ic" (STT35F Only) (Honeywell) Module to be installed in enclosure rated IP 54 minimum	3N	•	•
	Multiple Marking**, Int. Safe, Zone 0/1, or Flameproof, Zone 1, or Non-Sparking, Zone 2	 II 1 G Ex ia IIC T4, T5, T6  II 2 G Ex d IIC T5, T6  II 3 G Ex nA, IIC T5, T6	3H	j	j
SA	Intrinsically Safe, Zone 0/1	Ex ia IIC T4 (Ta = 70°C)	4S	•	
INMETRO (Brazil)	Flameproof	BR-Ex d IIC T6, (Ta -50 to 80°C), T5, (Ta -50 to 85°C)	6D	j	j
	Intrinsically Safe	BR-Ex ia IIC T6, (Ta -50 to 40°C), T5, (Ta -50 to 55°C), T5, (Ta -50 to 85°C) BR-Ex ia IIC T6, (Ta -50 to 40°C), T5, (Ta -50 to 50°C), T5, (Ta -50 to 85°C)	6S	•	•

(continued on next page)

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STT35\_ Availability

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**TABLE VII (CON'T) - Safety Approval Body Selection Appearing on Housing Nameplate**

IECEX	Intrinsically Safe, Zone 0/1	Ex ia IIB or IIC T6 (Ta = -50°C to +40°C) Ex ia IIB or IIC T5 (Ta = -50°C to +50°C) Ex ia IIB or IIC T4 (Ta = -50°C to +85°C) FISCO Field Device (STT35F Only) (Module only, IP 20)	CS	•	•
	Flameproof, Zone 1, Intrinsically Safe, Zone 0/1	Ex d IIC T6 (Ta = -50°C to +80°C) Ex d IIC T5 (Ta = -50°C to +85°C) Ex ia IIB or IIC T6 (Ta = -50°C to +40°C) Ex ia IIB or IIC T5 (Ta = -50°C to +50°C) Ex ia IIB or IIC T4 (Ta = -50°C to +85°C) FISCO Field Device (STT35F Only) Enclosure IP 66/67	CA	j	j

\* See ATEX installation requirements in Operator's Manuals EN11-6162 & EN11-6196

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 nameplate. Once a type of protection has been checked on the nameplate, the equipment shall not be reinstalled using any of the other certification types.

**RESTRICTIONS**

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
f	II	EP __	II	__ SM, __ FM
g	II	EP __		
j	II	EP __		
k	II	0000		
m			II	EP __

**Notes:** See 13:STT-9 and User's Manual for part numbers.  
 See 13:STT-OE-5 for OMS 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 602 313-6155.

**Ordering Example: STT350-0-EPME-0000-0000000-000-0000-0000**

**Warranty/Remedy**

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and **is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.**

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

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*Specifications are subject to change without notice.*

**For More Information**

Learn more about how STT 3000 Smart Temperature Transmitter can provide true differential temperature measurement, visit our website [www.honeywellprocess.com/stt-3000-temperature-transmitters](http://www.honeywellprocess.com/stt-3000-temperature-transmitters) or contact your Honeywell account manager.

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