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ТЕРМОПРЕОБРАЗОВАТЕЛИ

Технические характеристики

на SmartLine STT17F,

SmartLine STT17H, SmartLine

STT171, SmartLine STT173



STT 3000 Series STT170

SMART TEMPERATURE TRANSMITTER

Models STT171, STT173, STT17H, STT17F, STT17C

34-TT-03-07 6

PRODUCT SPECIFICATION SHEET

OVERVIEW

The Honeywell STT170 series of programmable temperature transmitters provides cost effective solutions for temperature monitoring applications. Compared to direct-wired temperature sensor monitoring points, the STT170 series of transmitters delivers increased accuracy, safety and reliability while also reducing wiring costs. These transmitters automatically linearize the temperature output signal bounded by the upper range value and lower range value established by the user. In addition, the user can program high or low limit alarms to activate in the case of sensor failure.

STT171 FEATURES

- Analog 4-20 mA output
- RTD or Ohm input
- DIN form B headmount
- NAMUR NE43 sensor error response
- Configurable using STT17C configuration tool and PC



STT173 FEATURES

- Analog 4-20 mA output
- RTD, T/C, Ohm or mV input
- DIN form B headmount
- NAMUR NE43 sensor error response
- Configurable using STT17C configuration tool and PC
- Galvanic isolation



STT17H FEATURES

- HART™/4-20 mA output
- RTD, T/C, Ohm or mV input
- Single or dual (difference or average) sensor input
- DIN form B headmount
- HART Multidrop capable
- NAMUR NE43 sensor error response
- Configurable using STT17C configuration tool and PC or HART field communicator
- Galvanic isolation

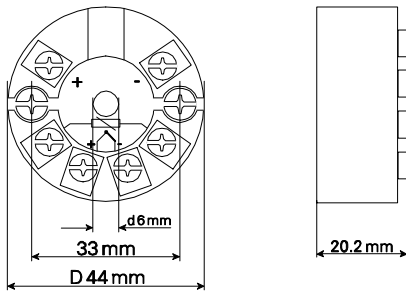


STT17F FEATURES

- FOUNDATION™ fieldbus protocol
- RTD, T/C, Ohm or mV input
- Single or dual (difference, average or redundant) sensor input
- DIN form B headmount
- Function blocks: 2 analogue, 1 PID
- FISCO certified
- Basic or LAS capability
- Galvanic isolation



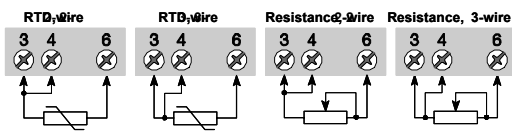
Dimensions (all models)



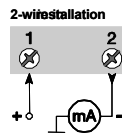
Wiring

STT171

Input:

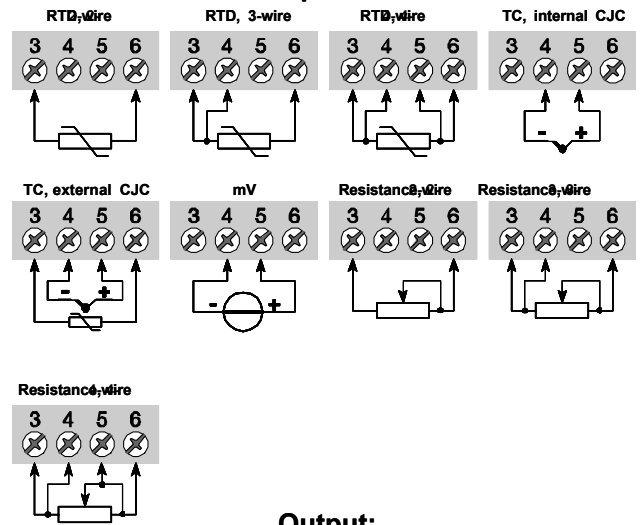


Output:

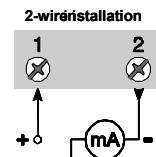


STT173

Input:

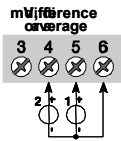
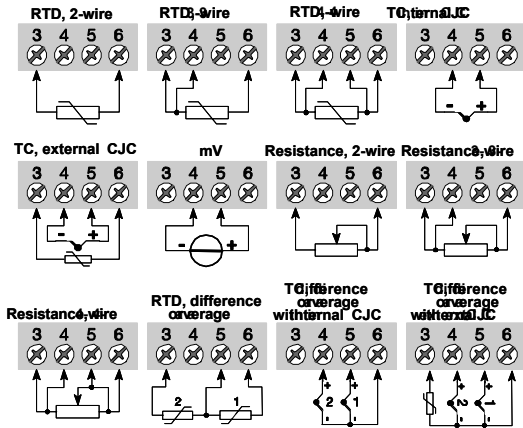


Output:

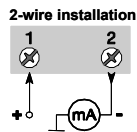


STT17H

Input:

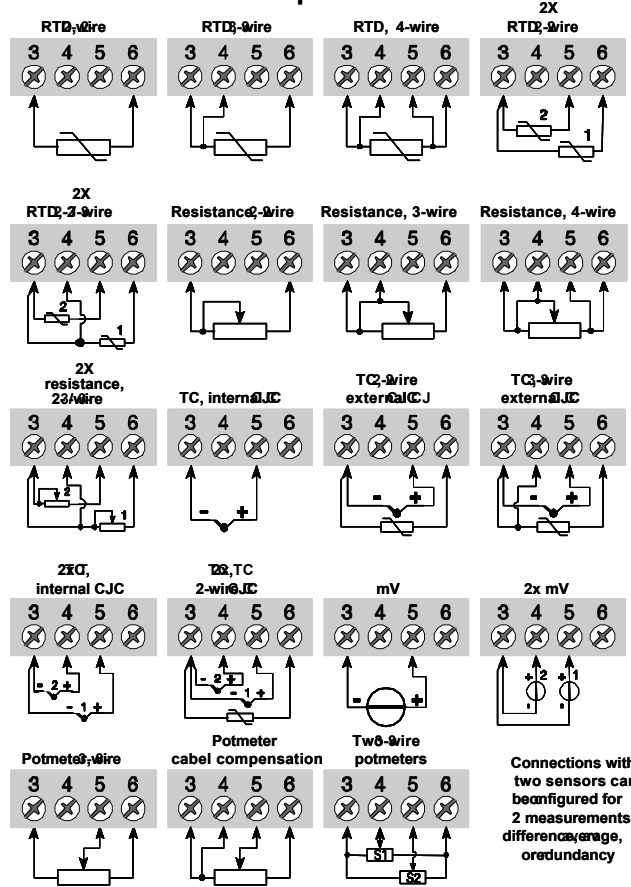


Output:



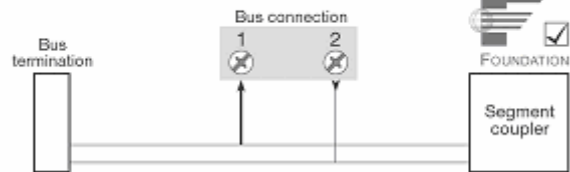
STT17F

Input:



Connections with two sensors can be configured for 2 measurements, difference coverage, redundancy

Output:



STT171-BS Specifications

Sensor Type	Basic Accuracy*		Rated Range		Standards	Minimum Span**	Temperature Effects per 1.0°C (1.8°F) Change in Ambient Temperature***	
	Fixed	% of Span	°C	°F			Fixed	% of Span
Pt100	0.3°C (0.54°F)	± 0.1	-200 to 850	-328 to 1562	IEC60751	25°C (45°F)	0.01°C (0.018°F)	±0.01
Ni100	0.3°C (0.54°F)	± 0.1	-60 to 250	-76 to 482	DIN 43760	25°C (45°F)	0.01°C (0.018°F)	±0.01
Ω	0.2 Ω	± 0.1	0 to 10000 Ω			30 Ω	20 mΩ	±0.01

*whichever is greater; Total Reference Accuracy = Basic Accuracy

**or 50% of upper range value, whichever is greater

*** reference temperature 24°C

OPERATING CONDITIONS

Ambient temperature, rated.....-40 to 85°C (-40 to 185°F)
 Humidity.....0 to 95% RH (non-cond.)
 Vibration.....Max 4g over 25 to 100Hz

ELECTRICAL INPUT SPECIFICATIONS

Supply voltage.....8 to 30 VDC
 Power supply voltage effect.....≤ 0.005% of span per VDC
 Warm-up time.....5 min
 Response time (programmable).....0.33 to 60 sec

CURRENT OUTPUT SPECIFICATIONS

Signal output range.....4 to 20 mA
 Update time.....135 msec
 Load resistance.....≤(V supply - 8) / 0.023 A
 0 to 870 Ω

ALARM LEVELS


Programmable.....3.5 to 4 mA downscale
 20 to 23 mA upscale
 NAMUR NE43 Upscale.....23 mA
 NAMUR NE43 Downscale.....3.5 mA

APPROVALS

Observed Authority requirements:

EMC 2004/108/EC
 Emmission and immunity EN 61326
 ATEX 94/9/EC..... EN 50014, EN 50020,
 EN 50281-1-1 and EN 50284
 FM, ASCN..... 3600, 3611, 3610
 CSA, CAN / CSA..... C22.2 No. 157, E60079-11,
 UL 913

Ex / I.S. approval:

KEMA 06 ATEX 0042 X.....  II 1 GD, T80°C...T105°C
 EEx ia IIC T4...T6
 Max. amb. Temperature for T4.....85°C
 Max. amb. Temperature for T6.....60°C
 Applicable in zone.....0, 1, 2, 20, 21 or 22
 FM, applicable in.....IS, CL I, DIV 1, Grp. A-D, T4...T6
 AEx ia IIC
 NI, CL I, DIV 2, Grp. A-D, T4...T6
 Entity, FM Installation Drawing No..... 50016324
 CSA, applicable in..... IS, CL I, DIV 1, Grp. A-D, T4...T6
 Ex ia IIC, AEx ia IIC
 Entity, Installation Drawing No.....50016326

Ex / I.S. data:

U_i (max)..... 30 VDC
 I_i (max).....120 mADC
 P_i (max).....0.84 W
 L_i (max)..... 10 µH
 C_i (max)..... 1.0 nF
 U_o (max).....27 VDC
 I_o (max).....7 mADC
 P_o (max).....45 mW
 L_o (max).....35 mH
 C_o (max).....90 nF

STT173-BS Specifications

Sensor Type	Basic Accuracy*		Rated Range		Standards	Minimum Span**	Temperature Effects per 1.0°C (1.8°F) Change in Ambient Temperature***	
	Fixed	% of Span	°C	°F			Fixed	% of Span
Pt100	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	25°C (45°F)	0.01°C (0.018°F)	±0.01
Ni100	0.2°C (0.36°F)	± 0.1	-60 to +250	-76 to +482	DIN 43760	25°C (45°F)	0.01°C (0.018°F)	±0.01
B	2°C (3.6°F)	± 0.1	+400 to +1820	+752 to +3308	IEC584	200°C (360°F)	0.2°C (0.36°F)	±0.01
E	1°C (1.8°F)	± 0.1	-100 to +1000	-148 to +1832	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
J	1°C (1.8°F)	± 0.1	-100 to +1200	-148 to +2192	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
K	1°C (1.8°F)	± 0.1	-180 to +1372	-192 to +2502	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
L	1°C (1.8°F)	± 0.1	-100 to +900	-148 to +1652	DIN 43710	50°C (90°F)	0.05°C (0.09°F)	±0.01
N	1°C (1.8°F)	± 0.1	-180 to +1300	-292 to +2372	IEC584	100°C (180°F)	0.05°C (0.09°F)	±0.01
R	2°C (3.6°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	200°C (360°F)	0.2°C (0.36°F)	±0.01
S	2°C (3.6°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	200°C (360°F)	0.2°C (0.36°F)	±0.01
T	1°C (1.8°F)	± 0.1	-200 to +400	-328 to +752	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
U	1°C (1.8°F)	± 0.1	-200 to +600	-328 to +1112	DIN 43710	75°C (135°F)	0.05°C (0.09°F)	±0.01
W3	2°C (3.6°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	200°C (360°F)	0.2°C (0.36°F)	±0.01
W5	2°C (3.6°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	200°C (360°F)	0.2°C (0.36°F)	±0.01
Ω	0.1 Ω	± 0.1	0 to 5000 Ω			30 Ω	10 mΩ	±0.01
mV	10 μV	± 0.1	-12 to 800 mV			5 mV	1 μV	±0.01

*whichever is greater; Total Reference Accuracy = Basic Accuracy + CJ Accuracy (T/C only)

**or 50% of upper range value, whichever is greater

*** reference temperature 24°C

OPERATING CONDITIONS

Ambient temperature, rated..... -40 to 85°C (-40 to 185°F)
 Humidity..... 0 to 95% RH (non-cond.)
 Vibration..... Max 4g over 25 to 100Hz
 Cold junction accuracy..... ±1.0°C

ELECTRICAL INPUT SPECIFICATIONS

Supply voltage..... 7.2 to 30 VDC
 Power supply voltage effect..... ≤ 0.005% of span per VDC
 Warm-up time..... 5 min
 Response time (programmable)..... 1 to 60 sec
 Galvanic isolation..... 1500 VAC

CURRENT OUTPUT SPECIFICATIONS

Signal output range..... 4 to 20 mA
 Update time..... 440 msec
 Load resistance (Ω)..... ≤ (V supply - 7.2) / 0.023 A
 0 to 904 Ω

ALARM LEVELS

Programmable..... 3.5 to 4 mA downscale
 20 to 23 mA upscale
 NAMUR NE43 Upscale..... 23 mA
 NAMUR NE43 Downscale..... 3.5mA


APPROVALS

Observed Authority requirements:

EMC 2004/108/EC

Emmission and immunity EN 61326
 ATEX 94/9/EC..... EN 50014, EN 50020
 FM, ASCN..... 3600, 3611, 3610
 CSA, CAN / CSA..... C22.2 No. 157, E60079-11,
 UL 913

Ex / I.S. approval:

KEMA 06 ATEX 0063 X.....  II 1 GD, T80°C...T105°C
 EEx ia IIC T4...T6

Max. amb. Temperature for T4..... 85°C
 Max. amb. Temperature for T6..... 60°C
 Applicable in zone..... 0, 1, 2, 20, 21 and 22
 FM, applicable in..... IS, CL I, DIV 1, Grp. A-D, T4...T6
 AEx ia IIC
 NI, CL I, DIV 2, Grp. A-D, T4...T6
 Entity, FM Installation Drawing No..... 50016324
 CSA, applicable in..... IS, CL I, DIV 1, Grp. A-D, T4...T6
 Ex ia IIC, AEx ia IIC
 Entity, Installation Drawing No..... 50016326

Ex / I.S. data:

U_i (max)..... 30 VDC
 I_i (max)..... 120 mADC
 P_i (max)..... 0.84 W
 L_i (max)..... 10 μH
 C_i (max)..... 1.0 nF
 U_o (max)..... 9.6 VDC
 I_o (max)..... 25 mADC
 P_o (max)..... 60 m W
 L_o (max)..... 33 mH
 C_o (max)..... 3.6 μF

STT17H-BS Specifications

Sensor Type	Basic Accuracy*		Rated Range		Standards	Minimum Span**	Temperature Effects per 1.0°C (1.8°F) Change in Ambient Temperature***	
	Fixed	% of Span	°C	°F			Fixed	% of Span
Pt100	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	10°C (18°F)	0.01°C (0.018°F)	±0.01
Pt1000	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	10°C (18°F)	0.01°C (0.018°F)	±0.01
Ni100	0.3°C (0.54°F)	± 0.1	-60 to +250	-76 to +482	DIN 43760	10°C (18°F)	0.01°C (0.018°F)	±0.01
B	1°C (1.8°F)	± 0.1	-400 to	-752 to +3308	IEC584	100°C (180°F)	0.2°C (0.36°F)	±0.01
E	0.5°C (0.9°F)	± 0.1	-100 to +1000	-148 to +1832	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
J	0.5°C (0.9°F)	± 0.1	-100 to +1200	-148 to +2192	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
K	0.5°C (0.9°F)	± 0.1	-180 to +1372	-192 to +2502	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
L	0.5°C (0.9°F)	± 0.1	-100 to +900	-148 to +1652	DIN 43710	50°C (90°F)	0.05°C (0.09°F)	±0.01
N	0.5°C (0.9°F)	± 0.1	-180 to +1300	-292 to +2372	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
R	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	100°C (180°F)	0.2°C (0.36°F)	±0.01
S	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	100°C (180°F)	0.2°C (0.36°F)	±0.01
T	0.5°C (0.9°F)	± 0.1	-200 to +400	-328 to +752	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
U	0.5°C (0.9°F)	± 0.1	-200 to +600	-328 to +1112	DIN 43710	50°C (90°F)	0.05°C (0.09°F)	±0.01
W3	1°C (1.8°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	100°C (180°F)	0.2°C (0.36°F)	±0.01
W5	1°C (1.8°F)	± 0.1	to +2300	+32 to +4172	ASTM E988-90	100°C (180°F)	0.2°C (0.36°F)	±0.01
Ω	0.1 Ω	± 0.1	0 to 7000 Ω			25 Ω	5 mΩ	±0.01
mV	10 μV	± 0.1	-800 to 800 mV			5 mV	0.5 μV	±0.01

*whichever is greater; Total Reference Accuracy = Basic Accuracy + CJ Accuracy (T/C only)

**or 50% of upper range value, whichever is greater

*** reference temperature 24°C

OPERATING CONDITIONS

Ambient temperature, rated..... -40 to 85°C (-40 to 185°F)
 Humidity..... 0 to 95% RH (non-cond.)
 Vibration..... Max 4g over 25 to 100Hz
 Cold junction accuracy..... ±1.0°C

ELECTRICAL INPUT SPECIFICATIONS

Supply Voltage..... 8 to 30 VDC
 Power supply voltage effect..... ≤ 0.005% of span per VDC
 Warm-up time..... 30 sec
 Response time (programmable)..... 1 to 60 sec
 Galvanic isolation..... 1500 VAC

CURRENT OUTPUT SPECIFICATIONS

Signal output range..... 4 to 20 mA
 Update time..... 440 msec
 Load resistance (Ω)..... ≤(V supply - 8) / 0.023 A
 0 to 870 Ω

ALARM LEVELS


Programmable..... 3.5 to 4 mA downscale
 20 to 23 mA upscale
 NAMUR NE43 Upscale..... 23 mA
 NAMUR NE43 Downscale..... 3.5 mA

APPROVALS

Observed Authority requirements:

EMC 2004/108/EC
 Emmission and immunity EN 61326
 ATEX 94/9/EC..... EN 50014, EN 50020,
 EN 50281-1-1 and EN 50284
 FM, ASCN..... 3600, 3611, 3610
 CSA, CAN / CSA..... C22.2 No. 157, E60079-11,
 UL 913

Ex / I.S. approval:

KEMA 06 ATEX 0044 X.....  II 1 GD, T80°C...T105°C
 EEx ia IIC T4...T6
 Max. amb. Temperature for T4..... 85°C
 Max. amb. Temperature for T6..... 60°C
 Applicable in zone..... 0, 1, 2, 20, 21 or 22
 FM, applicable in..... IS, CL I, DIV 1, Grp. A-D, T4...T6
 AEx ia IIC
 NI, CL I, DIV 2, Grp. A-D, T4...T6
 Entity, FM Installation Drawing No..... 50016324
 CSA, applicable in..... IS, CL I, DIV 1, Grp. A-D, T4...T6
 Ex ia IIC, AEx ia IIC
 Entity, Installation Drawing No..... 50016326

Ex / I.S. data:

U_i (max)..... 30 VDC
 I_i (max)..... 120 mADC
 P_i (max)..... 0.84 W
 L_i (max)..... 10 μH
 C_i (max)..... 1.0 nF
 U_o (max)..... 9.6 VDC
 I_o (max)..... 28 mADC
 P_o (max)..... 67 m W
 L_o (max)..... 33 mH
 C_o (max)..... 3.5 μF

STT17H-BN Specifications

Sensor Type	Basic Accuracy*		Rated Range		Standards	Minimum Span**	Temperature Effects per 1.0°C (1.8°F) Change in Ambient Temperature***	
	Fixed	% of Span	°C	°F			Fixed	% of Span
Pt100	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	10°C (18°F)	0.01°C (0.018°F)	±0.01
Pt1000	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	10°C (18°F)	0.01°C (0.018°F)	±0.01
Ni100	0.3°C (0.54°F)	± 0.1	-60 to +250	-76 to +482	DIN 43760	10°C (18°F)	0.01°C (0.018°F)	±0.01
B	1°C (1.8°F)	± 0.1	-400 to	-752 to +3308	IEC584	100°C (180°F)	0.2°C (0.36°F)	±0.01
E	0.5°C (0.9°F)	± 0.1	-100 to +1000	-148 to +1832	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
J	0.5°C (0.9°F)	± 0.1	-100 to +1200	-148 to +2192	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
K	0.5°C (0.9°F)	± 0.1	-180 to +1372	-192 to +2502	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
L	0.5°C (0.9°F)	± 0.1	-100 to +900	-148 to +1652	DIN 43710	50°C (90°F)	0.05°C (0.09°F)	±0.01
N	0.5°C (0.9°F)	± 0.1	-180 to +1300	-292 to +2372	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
R	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	100°C (180°F)	0.2°C (0.36°F)	±0.01
S	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	100°C (180°F)	0.2°C (0.36°F)	±0.01
T	0.5°C (0.9°F)	± 0.1	-200 to +400	-328 to +752	IEC584	50°C (90°F)	0.05°C (0.09°F)	±0.01
U	0.5°C (0.9°F)	± 0.1	-200 to +600	-328 to +1112	DIN 43710	50°C (90°F)	0.05°C (0.09°F)	±0.01
W3	1°C (1.8°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	100°C (180°F)	0.2°C (0.36°F)	±0.01
W5	1°C (1.8°F)	± 0.1	to +2300	+32 to +4172	ASTM E988-90	100°C (180°F)	0.2°C (0.36°F)	±0.01
Ω	0.1 Ω	± 0.1	0 to 7000 Ω			25 Ω	5 mΩ	±0.01
mV	10 μV	± 0.1	-800 to 800 mV			5 mV	0.5 μV	±0.01

*whichever is greater; Total Reference Accuracy = Basic Accuracy + CJ Accuracy (T/C only) **or 50% of upper range value, whichever is greater
 *** reference temperature 24°C

OPERATING CONDITIONS

Ambient temperature, rated..... -40 to 85°C (-40 to 185°F)
 Humidity..... 0 to 95% RH (non-cond.)
 Vibration..... Max 4g over 25 to 100Hz
 Cold junction accuracy..... ±1.0°C

ELECTRICAL INPUT SPECIFICATIONS

Supply Voltage..... 8 to 35 VDC
 Power supply voltage effect..... ≤ 0.005% of span per VDC
 Warm-up time..... 30 sec
 Response time (programmable)..... 1 to 60 sec
 Galvanic isolation..... 1500 VAC

CURRENT OUTPUT SPECIFICATIONS

Signal output range..... 4 to 20 mA
 Update time..... 440 msec
 Load resistance (Ω)..... ≤(V supply - 8) / 0.023 A
 0 to 1174 Ω

ALARM LEVELS

Programmable..... 3.5 to 4 mA downscale
 20 to 23 mA upscale
 NAMUR NE43 Upscale..... 23 mA
 NAMUR NE43 Downscale..... 3.5 mA


APPROVALS

Observed Authority requirements:

EMC 2004/108/EC
 Emmission and immunity EN 61326
 ATEX 94/9/EC..... EN 60079-0, EN 60079-15

Standard:

Ex / I.S. approval:

KEMA 06 ATEX 0043 X.....  II 3 GD, T80°C...T105°C
 EEx nA [L] IIC T4...T6
 Applicable in zone..... 2
 Max. amb. Temperature for T4..... 85°C
 Max. amb. Temperature for T6..... 60°C
 Vmax..... 35V

STT17F-BS Specifications

Sensor Type	Basic Accuracy*		Rated Range		Standards	Temperature Effects per 1.0°C (1.8°F) Change in Ambient Temperature**	
	Fixed	% of reading	°C	°F		Fixed	% of reading
Pt100	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	0.01°C (0.018°F)	±0.01
Pt1000	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	0.01°C (0.018°F)	±0.01
Ni100	0.3°C (0.54°F)	± 0.1	-60 to +250	-76 to +482	DIN 43760	0.01°C (0.018°F)	±0.01
Cu10	1.3°C (2.3°F)	± 0.1	-50 to +200	-58 to +392	α = 0.00427	0.02°C (0.036°F)	±0.01
B	1°C (1.8°F)	± 0.1	-400 to	-752 to +3308	IEC584	0.2°C (0.36°F)	±0.01
E	0.5°C (0.9°F)	± 0.1	-100 to +1000	-148 to +1832	IEC584	0.05°C (0.09°F)	±0.01
J	0.5°C (0.9°F)	± 0.1	-100 to +1200	-148 to +2192	IEC584	0.05°C (0.09°F)	±0.01
K	0.5°C (0.9°F)	± 0.1	-180 to +1372	-192 to +2502	IEC584	0.05°C (0.09°F)	±0.01
L	0.5°C (0.9°F)	± 0.1	-200 to +900	-328 to +1652	DIN 43710	0.05°C (0.09°F)	±0.01
N	0.5°C (0.9°F)	± 0.1	-180 to +1300	-292 to +2372	IEC584	0.05°C (0.09°F)	±0.01
R	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	0.2°C (0.36°F)	±0.01
S	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	0.2°C (0.36°F)	±0.01
T	0.5°C (0.9°F)	± 0.1	-200 to +400	-328 to +752	IEC584	0.05°C (0.09°F)	±0.01
U	0.5°C (0.9°F)	± 0.1	-200 to +600	-328 to +1112	DIN 43710	0.05°C (0.09°F)	±0.01
W3	1°C (1.8°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	0.2°C (0.36°F)	±0.01
W5	1°C (1.8°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	0.2°C (0.36°F)	±0.01
Ω	0.05 Ω	± 0.1	0 to 10000 Ω			2 mΩ	±0.01
mV	10 μV	± 0.1	-800 to 800 mV			0.2 μV	±0.01

*whichever is greater; Total Reference Accuracy = Basic Accuracy + CJ Accuracy (T/C only)

** reference temperature 24°C

OPERATING CONDITIONS

Ambient temperature, rated.....-40 to 85°C (-40 to 185°F)
 Humidity.....0 to 95% RH (non-cond.)
 Vibration.....Max 4g over 25 to 100Hz
 Cold junction accuracy.....±0.5°C

ELECTRICAL INPUT SPECIFICATIONS

Supply Voltage.....9 to 30 VDC
 In FISCO installations.....9 to 17.5 VDC
 Consumption.....< 11 mA
 Warm-up time.....30 sec
 Response time (programmable).....1 to 60 sec
 Galvanic isolation.....1500 VAC
 Update time.....< 400 msec
 Execution time, PID controller.....< 200 msec
 Execution time, analogue input.....< 50 msec

OUTPUT SPECIFICATIONS

Foundation™ Fieldbus connection:

Foundation™ Fieldbus version.....ITK 4.6
 Foundation™ F. capability.....Basic or LAS
 Foundation™ F. function blocks.....2 analogue and 1 PID

Ex / I.S. data:


Unit	Class I, Zone 0, EEx ia IIC, Entity/FISCO			
	IS, Class I, Division 1, Group A, B, C, D, Entity/FISCO			
	Barrier where Po < 0.84 W	Barrier where Po < 1.3 W	Suitable for FISCO systems	Suitable for FISCO systems
Ui	30 VDC	30 VDC	17.5 VDC	15 VDC
li	120 mADC	300 mADC	250 mADC	900 mADC
Pi	0.84 W	1.3 W	2.0 W	5.32 W
Li	1 μH	1 μH	1 μH	1 μH
Ci	2.0 nF	2.0 nF	2.0 nF	2.0 nF
T1...T4	Tamb. < 85°C	Tamb. < 75°C	Tamb. < 85°C	Tamb. < 85°C
T5	Tamb. < 70°C	Tamb. < 65°C	Tamb. < 60°C	Tamb. < 60°C
T6	Tamb. < 60°C	Tamb. < 45°C	Tamb. < 45°C	Tamb. < 45°C

APPROVALS

Observed Authority requirements: Standard:

EMC 2004/108/EC
 Emmission and immunity EN 61326
 ATEX 94/9/EC.....EN 50014, EN 50020,
 EN 50281-1-1, EN 50284,
 and IEC 60079-27 (FISCO)
 FM, ASCN.....3600, 3611, 3610
 CSA, CAN / CSA.....C22.2 No. 142, No. 157
 CAN / CSA.....E60079-0, E60079-11,
 E60079-15, UL913, UL1604

Ex / I.S. approval:

KEMA 06 ATEX 0046..... II 1 GD, T65°C...T105°C
 EEx ia IIC T4...T6
 Ex II 2(1) GD, T65oC...T105oC
 EEx ib [ia] IIC T4...T6
 Applicable in zone.....0, 1, 2, 20, 21 or 22
 FM, applicable in.....IS, CL I, DIV 1, Grp. A-D, T4...T6
 AEx ia IIC
 NI, CL I, DIV 2, Grp. A-D, T4...T6
 Entity, FM Installation Drawing No.....50016325
 CSA, applicable in.....IS, CL I, DIV 1, Grp. A-D, T4...T6
 Ex ia IIC, AEx ia IIC
 CL I, DIV 2, Grp. A-D, T4...T6
 Entity, CSA Installation Drawing No.....50016325

Ex / I.S. data:

Unit	Class I, Zone 1, EEx ib IIC, Entity/FISCO	
	IS, Class I, Division 2, Group A, B, C, D, Entity/FISCO	
	Barrier where Po < 5.32 W	FISCO segment coupler
Ui	30 VDC	17.5 VDC
li	250 mADC	All
Pi	5.32 W	All
Li	1 μH	1 μH
Ci	2.0 nF	2.0 nF
T1...T4	Tamb. < 85°C	Tamb. < 85°C
T5	Tamb. < 75°C	Tamb. < 75°C
T6	Tamb. < 60°C	Tamb. < 60°C

STT17F-BN Specifications

Sensor Type	Basic Accuracy*		Rated Range		Standards	Temperature Effects per 1.0°C (1.8°F) Change in Ambient Temperature**	
	Fixed	% of reading	°C	°F		Fixed	% of reading
Pt100	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	0.01°C (0.018°F)	±0.01
Pt1000	0.2°C (0.36°F)	± 0.1	-200 to +850	-328 to +1562	IEC60751	0.01°C (0.018°F)	±0.01
Ni100	0.3°C (0.54°F)	± 0.1	-60 to +250	-76 to +482	DIN 43760	0.01°C (0.018°F)	±0.01
Cu10	1.3°C (2.3°F)	± 0.1	-50 to +200	-58 to +392	α = 0.00427	0.02°C (0.036°F)	±0.01
B	1°C (1.8°F)	± 0.1	+400 to +1820	+752 to +3308	IEC584	0.2°C (0.36°F)	±0.01
E	0.5°C (0.9°F)	± 0.1	-100 to +1000	-148 to +1832	IEC584	0.05°C (0.09°F)	±0.01
J	0.5°C (0.9°F)	± 0.1	-100 to +1200	-148 to +2192	IEC584	0.05°C (0.09°F)	±0.01
K	0.5°C (0.9°F)	± 0.1	-180 to +1372	-192 to +2502	IEC584	0.05°C (0.09°F)	±0.01
L	0.5°C (0.9°F)	± 0.1	-200 to +900	-328 to +1652	DIN 43710	0.05°C (0.09°F)	±0.01
N	0.5°C (0.9°F)	± 0.1	-180 to +1300	-292 to +2372	IEC584	0.05°C (0.09°F)	±0.01
R	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	0.2°C (0.36°F)	±0.01
S	1°C (1.8°F)	± 0.1	-50 to +1760	-58 to +3200	IEC584	0.2°C (0.36°F)	±0.01
T	0.5°C (0.9°F)	± 0.1	-200 to +400	-328 to +752	IEC584	0.05°C (0.09°F)	±0.01
U	0.5°C (0.9°F)	± 0.1	-200 to +600	-328 to +1112	DIN 43710	0.05°C (0.09°F)	±0.01
W3	1°C (1.8°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	0.2°C (0.36°F)	±0.01
W5	1°C (1.8°F)	± 0.1	0 to +2300	+32 to +4172	ASTM E988-90	0.2°C (0.36°F)	±0.01
Ω	0.05 Ω	± 0.1	0 to 10000 Ω			2 mΩ	±0.01
mV	10 μV	± 0.1	-800 to 800 mV			0.2 μV	±0.01

*whichever is greater; Total Reference Accuracy = Basic Accuracy + CJ Accuracy (T/C only)

** reference temperature 24°C

OPERATING CONDITIONS

Ambient temperature, rated.....-40 to 85°C (-40 to 185°F)
 Humidity.....0 to 95% RH (non-cond.)
 Vibration.....Max 4g over 25 to 100Hz
 Cold junction accuracy.....±0.5°C
 Reference temperature.....20 to 28°C

ELECTRICAL INPUT SPECIFICATIONS

Supply Voltage.....9 to 32 VDC
 Consumption.....≤ 11 mA
 Warm-up time.....30 sec
 Response time (programmable).....1 to 60 sec
 Galvanic isolation.....1500 VAC
 Update time.....< 400 msec
 Execution time, PID controller.....< 200 msec
 Execution time, analogue input.....< 50 msec

OUTPUT SPECIFICATIONS

Foundation™ Fieldbus connection:


Foundation™ Fieldbus version.....ITK 4.6
 Foundation™ F. capability.....Basic or LAS
 Foundation™ F. function blocks.....2 analogue and 1 PID

APPROVALS

Observed Authority requirements: Standard:

EMC 2004/108/EC
 Emmission and immunity EN 61326
 ATEX 94/9/EC.....EN 60079-0, EN 60079-15
 FM, ASCN.....3600, 3611
 CSA, CAN / CSA.....C22.2 No. 142, No. 213
 CAN / CSA.....E60079-0, E60079-15,
 UL1604

Ex / I.S. approval:

KEMA 06 ATEX 0045 X..... II 3 G
 EEx nA [L] IIC T4...T6
 Applicable in zone.....2
 FM, applicable in.....NI, CL I, DIV 2, Grp. A-D, T4...T6
 FNICO
 Entity, FM Installation Drawing No.....50016325
 CSA, applicable in.....CL I, DIV 2, Grp. A-D, T4...T6
 CL I, Zone 2,
 Ex nA IIC, AEx nA IIC
 Entity, CSA, Installation Drawing No.....50016325
 Max. amb. Temperature for T4.....85°C
 Max. amb. Temperature for T6.....60°C

Vmax.....32V
 Li.....1 μH
 Ci.....2.0 nF

По вопросам продаж и поддержки обращайтесь:

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