

TS206TH

In Head Thermistor Temperature Transmitter

Taishio



FEATURES

- Accepts multiple thermistor types
- (4 to 20) mA output
- PC / PUSH button configuration
- Fast response time and stability performance
- Custom thermistors available

SPECIFICATION

INPUT		SPECIFICATIONS @20 °C
Type/ Function	Range/ Description	Accuracy/ Stability
Thermistor	See below *1, *2	Typically ± 0.2 °C ± 0.2 % of reading *3
Thermal drift	Zero at 20 °C	± 0.02 % of range / °C
Minimum span	5 °C	
*1 Please refer to USBSpeedLink software for complete up to data list 3KB (44005, 44030), 5KB (44007, 44034), 10KB (44016,44036), 10KH (44006, 44031), 30KH (44008), 2252KB (44004, 44033), YSI_2_25B, YSI_10KB, P222KJ2, PS102J2, PS103G2, PS103J2, PS203J2, PS302J2, PS303J2, PS502J2, PS602J2, NTC10k b3435 Carel		
*2 Custom thermistors available please contact sales@status.co.uk		
*3 Basic measurement accuracy includes the effects of calibration, linearization and repeatability		

OUTPUT		SPECIFICATIONS @20 °C
Type/ Function	Range/ Description	Accuracy/ Stability/ Notes
Two wire current	(4 to 20) mA	(mA output /2000) or 5 uA (Whichever is the greater)
Thermal drift	Zero at 20°C	2 uA / °C
Maximum output current	21.5 mA	In high burnout condition
Minimum output current	< 3.9 mA	In low burnout condition
Loop voltage effect	0.2 uA / V	
Maximum output load	[(V supply - 10)/21] K Ω	666 Ω @ 24 V DC
Loop supply	(10 to 30) V DC	SELV

USB USER INTERFACE		
Type/ Function	Range/ Description	Notes
Configuration hardware	USB configuration module	USB-CONFIG-MKII
Configuration software	USBSpeedLink	Download www.status.co.uk
Sensor configuration	Thermistor type Temperature range for (4 to 20) mA retransmission Sensor offset Burnout current	From list °C or °F °C or °F Upscale or downscale
Read live data	Temperature Output	°C or °F mA
Save/Open configuration	From file	

SPECIFICATION

PUSH BUTTON USER INTERFACE		
Type/ Function	Range/ Description	Notes
Sensor configuration	Input range for retransmission	At 4.0 mA and 20.0 mA
Any part of the full input range (greater than minimum span) can be used for retransmission		

GENERAL	
Function	Description
Update time	500 ms
Response time	1 second
Start-up time	4 seconds (mA out < 4 mA during start up)
Warm up time	60 s to full accuracy
Default configuration	YSI 10 K B (0 to 100) °C , upscale burnout

ENVIRONMENTAL	
Function	Description
Ambient temperature	Operating/Storage (-40 to 85) °C Full accuracy only between (-30 to 75) °C
Ambient Humidity	Operating/Storage (10 to 90) %RH non-condensing
Protection requirement	>= IP65 recommended
USB configuration ambient	(10 to 30) °C

MECHANICAL	
Function	Description
Dimensions	43 mm diameter; 21 mm height
Fixing centres	2 x 5 mm holes on 33 mm centres
Centre hole	4.5 mm hole for wiring aid
Weight approximately	31 g (encapsulated)

APPROVALS	
EMC	BS EN 61326: Note - Sensor input wires to be less than 3 m to comply
Ingress protection	BS EN 60529
RoHS	Directive 2011/65/EU
EAC	Available upon request
DNV	Available upon request