

# Temperature Sensor/Transmitter

Removeable or potted element, specifiable insertion length

HTT04-TB  
03/04

# Staitech

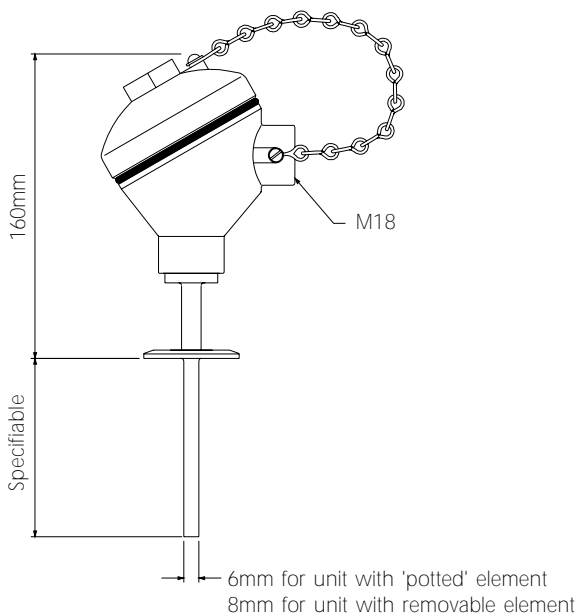
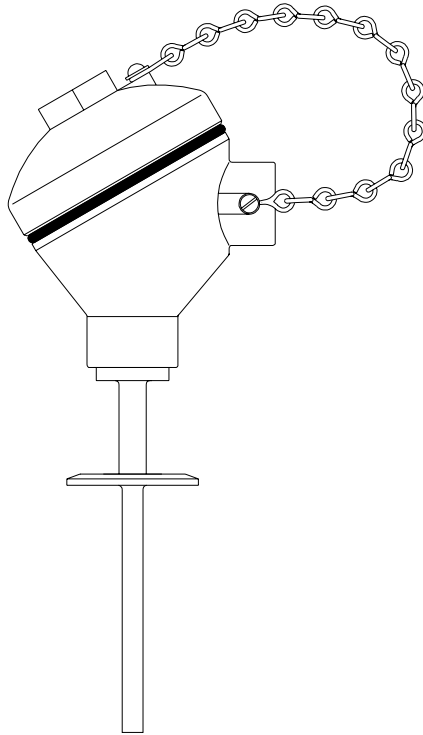


Illustration showing standard aluminium terminal head. Consult Staitech for dimensions covering alternative head types.

## Temperature Sensor/Transmitter

The temperature sensors offered by Staitech can be supplied with either a 'potted' or removable sensing element. With the latter configuration, the sensing element can be withdrawn through the terminal head for calibration while leaving the sensor thermowell housing in-line.

Both types of sensor utilise a 3 wire Class A PT100 element. Where a 4-20mA output is required, the terminal head can be fitted with a transmitter to give an output proportional to the measured temperature. Duplex units can also be supplied, as can units fitted with type J, K, T or E Thermocouples.

All wetted parts are manufactured in 316L stainless steel and finished to 0.4 microns Ra. Standard units are available with a Tri-Clamp® compatible system connection in sizes 1/2" to 6". The insertion length is specifiable from 35mm. Material and calibration certificates are available for all sensor types.

### Product specification

Sensor probe and connector	316L stainless steel
Terminal head/rating	Epoxy coated aluminium/IP65
System connection	Tri-Clamp® compatible
Connection sizes	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4" or 6"
Insertion length	Specifiable from 35mm
Medium temperature operating range	-50 to 250°C
Ambient temperature operating range	-40 to 85°C
Sensor element	3 wire PT100
Accuracy	Class A ( $\leq \pm 0.06\Omega$ )
Probe/connector surface finish	0.4 microns Ra
Options	Electropolished finish, duplex sensing elements, 4-wire elements, thermocouple elements, flying leads, plastic & stainless steel terminal housings

### Sensor with programmable transmitter

Output signal	4-20 mA
Required supply	8-35 Vdc
Set range	Specifiable(0-50°C, etc.)
Basic accuracy	$\leq \pm 0.1\%$ of span
Temperature coefficient	$\leq \pm 0.01\%$ of span/°C

Options 24 Vdc power supply, panel mount indicator, intrinsically safe transmitters, explosion proof enclosures

Staitech use PR electronics PRetop 5333, 5334 and 5335 programmable transmitters. Full technical specification for all transmitter models are available upon request or see [www.prelectronics.dk](http://www.prelectronics.dk).