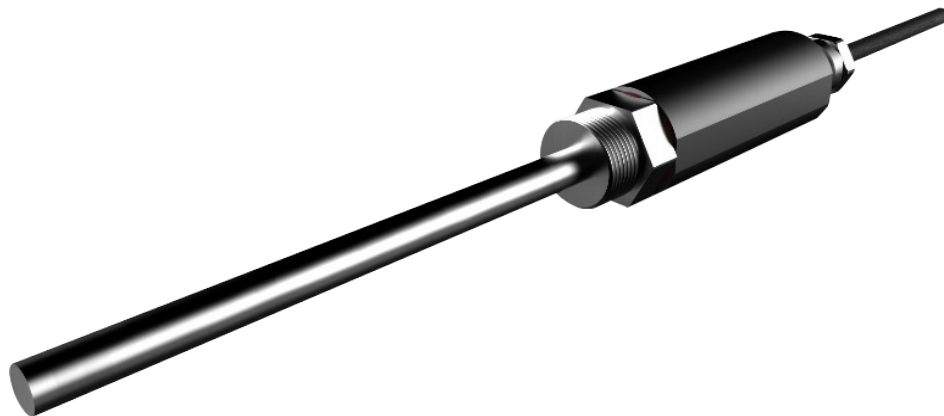


MTH Mini Tank Immersion Heaters

The Miniature Tank Heater (MTH) is a smaller range 'plug and play' immersion heater that provides a complete solution for the heating of hazardous area liquids. Each is designed with specific fittings for direct immersion and are fully certified for use in hazardous areas where the atmosphere is classified as a Zone 1 or 2 (IIA, IIB, IIC) gas group, or a Zone 21 or 22 (IIIA, IIIB, IIIC) dust group.

Incorporating both process set-point control and over-temperature trip electronic circuitry, it requires no additional control or safety components to operate. The inclusion of bespoke electronics allows for greater accuracy and lower hysteresis when controlling the process temperature, when compared with traditionally used electro-mechanical temperature switches.

A compact Ex d anodised aluminium enclosure houses the electronics, this provides an ideal solution when space is at a premium.

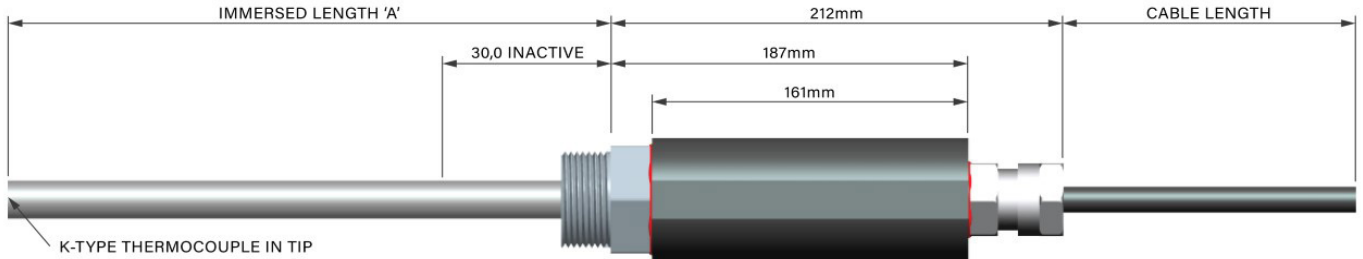


FEATURES

- "Plug and play" style heater, screws directly to tank or boss as required.
- Horizontal or vertical installation.
- Suitable for ambient temperatures as low as -40°C (subject to certification parameters). Max ambient limit TBC.
- Different sized withdrawable cartridge elements available
- Optional built-in thermocouple for over-temperature protection available

TYPICAL APPLICATIONS

- Anti-condensation
- Boiler equipment
- Cleaning and rinsing tanks
- Frost protection
- Gear boxes
- Hot water storage tanks
- Pump casings
- Sumps
- Tank bases



Accuracy	1°C
Ambient operating temperature	-40°C to 60°C
Calibration temperature	20°C to 25°C
Certification	<p>ATEX/IECEX (subject to changes)</p> <p>Ⓔ II 2 G D Ex d IIC T3 Gb Ex tb IIIC T200°C Db (IP65/68)</p> <p>CSA (subject to changes)</p> <p>CSA (CEC/NEC) Class I, Div 1, Groups A, B, C, D; T1 to T6, Enclosure Type / NEMA 4 or 4X CSA (CEC) Ex d IIC; T1 to T6 Gb, IP66 (CAN) CSA (NEC) Class I, Zone 1, AEx d IIC; T1 to T6 Gb, IP66 (USA)</p> <p>SIL</p> <p>Hardware assessed for use in SIL applications</p> <p>CCOE, CU TR (EAC), INMETRO, KGS to be available shortly</p>
Cable	3m standard – longer available on request
Elements	15mm elements pre welded to a ½" NPT 316L Stainless steel boss only
Mains input	110-254V AC RMS
Mounting	Threaded SS316 boss suited to client requirements.
Process fluid	Hazardous area liquids such hydraulic oil and non-hazardous gasses
Set point control	-40°C to 75°C

Suitable for Oil & Water Applications

Model	Rating (W) *				Immersed length (mm)	Inactive length (mm) **	Surface load (W/cm ²)				Fixing	Element
	220V	230V	240V	254V			220V	230V	240V	254V		
MTH-0.1-6-RNS	91	100	109	122	160	40	1.61	1.77	1.93	2.16	1/2" NPT	15mm
MTH-0.2-11-RNS	183	200	218	244	270	40	1.69	1.85	2.01	2.25	1/2" NPT	15mm
MTH-0.3-15-RNS	274	300	326	366	380	40	1.71	1.87	2.03	2.28	1/2" NPT	15mm
MTH-0.4-20-RNS	366	400	435	489	500	40	1.69	1.85	2.01	2.26	1/2" NPT	15mm
MTH-0.5-24-RNS	457	500	544	610	620	40	1.67	1.83	1.99	2.23	1/2" NPT	15mm

* 230V Nominal suitable to run between 220V up to 254V. 110V available on special request.

** 30mm inactive from fixing 10mm inactive at tip where thermocouple is placed

Please contact our Sales Team to discuss the full range of options available.