

Temperature Sensor

(HT/RTD/01)

Temperature sensor for surface temperature sensing.

R Series Solution

- Available for use in safe and hazardous areas.
- Enclosures suitable for Gas Group IIA, IIB and IIC.
- Dual set values for temperature for Heat Tracing System.
- Ingress Protection IP66.

INTRODUCTION

As part of our commitment to innovation in the industry, Heat Trace Ltd is offering a Pt100 & Sensor based EXd Certified high accuracy temperature sensor assembly.

The temperature sensor assembly is equipped with a 3 wire Pt100 RTD temperature sensor. Having the option of Pt100 & Sensor will provide more flexibility in terms of using electronic temperature controllers which can process signals from Pt100.

The sensor is secured to the surface with our range of adhesive aluminium tapes, dependant on system temperatures.

Temperature sensor may be used in safe areas, or Zone 1 or 2 hazardous areas.

The enclosure is made of high grade, cast aluminium and painted with RAL 7035 paint.



The Heat Tracing Authority™

SPECIFICATION

ENCLOSURE:

Material:	Standard Copper Free Aluminium
Paint shade:	RAL 7035, light grey
Protection:	EX (db) - IP66
Area suitability:	Zone 1 / Zone 2, IIA / IIB / IIC
Cable entries:	1 off x M20
Earthing:	Internal and external earthing
Sensor Type:	3 wire Pt100 Simplex
Temperature measuring range:	-100°C to 600°C
Sensor lead length:	Standard 110mm
Number of terminals:	3 off (simplex)

APPROVAL DETAILS:

ATEX	-	ETL 22ATEX0256X
IECEX	-	IECEX ITS 23.0001X
UKCA	-	ITS 22UKEX0671X

EQUIPMENT MARKING:

IECEX:

Gas: Ex db IIC T6/T5/T4 Gb
Dust: Ex tb IIIC T80°C/T95°C/T130°C Db IP66
-60°C <Ta< +75°C / +90°C / +120°C

ATEX/UKCA:

Gas: ⓧ II 2 G D Ex db IIC T6/T4 Gb
Dust: ⓧ II 2 G D Ex tb IIIC T80°C/T95°C/
T130°C Db IP66 -60°C <Ta< 75°C/
+90°C/+120°C

STANDARD KIT CONTENT:

- Enclosure fitted with sensor, specified entries, terminal & accessories.
- 2 off stainless steel earthing stud.
- O ring, grub screw, allen key for grub screw.
- Stainless steel certification plate.
- Cable entry marking sticker.
- External earthing stud.
- Earthing sticker.
- Instruction manual.

SAFE USE:

Only certified cable glands & accessories of required Ex protection shall be used.

Each entry shall have no more than one thread adaptor. A stopping plug shall not be used with a thread adaptor.

If holes or unused cable entry are left open, explosion protection can no longer be guaranteed.

Close open holes using stopping plugs approved for required type of protection.

ACCESSORIES:

Heat Trace Ltd supply a complete range of accessories including termination/splice kits, end seals, junction boxes and controls.



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