

CP MICROTHERM DNA.....Electric heater



1 Application

Heating of instrument enclosures in hazardous areas, designed for

- freeze protection
- condensation protection
- vertical installation

2 Features

- very slim heater body design
- vertical design allows for optimum installation adjacent to the instruments to be heated in the enclosure
- freeze-protection thermostat (TS) integrated as standard in the connection cable
- high heat output resulting from a special, black anodized aluminium profile construction



3 Description

The very versatile MICROTHERM line consists of electric heaters designed to heat the air in the enclosure by convection. Microtherm is the right choice of heater if the available space is not sufficient to install a larger model such as the MULTITHERM heater.

Wherever possible, a heater designed for temperature class T3 should be selected.

A temperature limiter is integrated in the heater that cuts off the power in case of a technical failure or excessive heating resulting from an external heat source. It should be noted that the temperature limiter must only be repaired in our factory. For reasons of operational safety the heater must only be operated under conditions that ensure that the trip temperature of the limiter will not be exceeded:

- Controllers such as TS, TAE or TC switch off the heater in case of high temperatures in the enclosure
- Ensure effective convection by observing the necessary clearances as per section 6 on the next page. Allow for good convection circulation in the enclosure and take care not to cover the fins.

A residual-current-operated protective device with a rated value of not more than 300 mA, preferably 30 mA should be installed.

All Intertec explosion-proof heaters can also be supplied to American NEC standard (CSA/ NRTL/ FM/ UL) and are available in a cost-saving non-explosion-proof design.

4 Technical Data

Ignition protection class	II 2 G EEx dm IIC T3 or T4
EC Type-examination certificate	PTB 02 ATEX 1041 X
Protection degree	IP 68, NEMA 4X
Operating temperature range	-50°C bis 180°C
Nominal voltage	230V AC
Connection cable	EWKF 3x1,5 mm ² Ø8,5 mm
Connection cable for AM	EWKF 5x1,5 mm ² Ø8,8 mm
Length of connection cable	1 m
Length, width	50 mm, 50 mm
Material	seawater-proof aluminium, black anodized

5 Types (Further types upon request)

CP MICROTHERM DNA	50	75
Nominal power [W]	50	75
Temperature class	T4	T3
Height	155 mm	

6 Options

TS	Room temp. controller for freeze protection
AM	Failure alarm opening at < 5 °C
3M	Connection cable 3 m long
120V	Nominal voltage 120 V AC

Ordering example: CP MICROTHERM DNA 75 T3 TS

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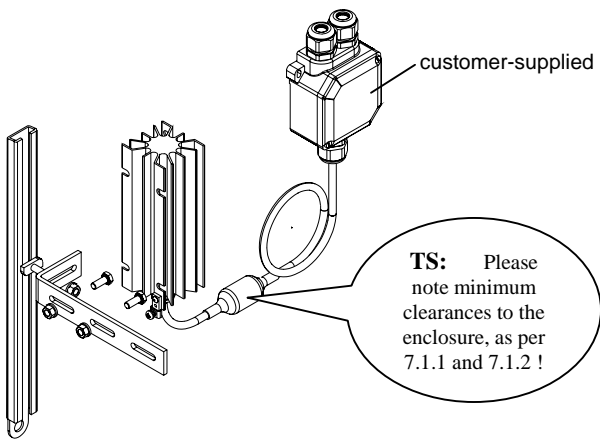


7 Installation Position and Minimum Clearances

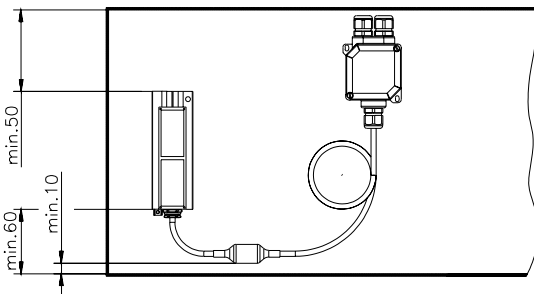
During installation, attention should be paid to the following:

- The fins must be positioned vertically
- Please note minimum clearances to the enclosure, as per 7.1.1 and 7.1.2
- The cable must be clearly legible

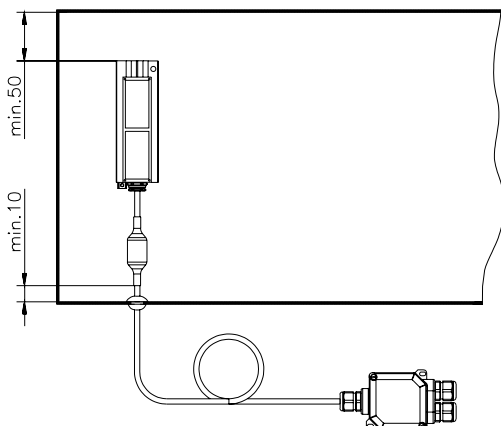
7.1 MICROTHERM TS



7.1.1 with customer-supplied internal junction box



7.1.2 with customer-supplied external junction box



8 Electric Wiring

