

CP BLOCKTHERM DPA ... T.



1 Application

The heating block is attached directly to manifolds, measuring instruments, control valves and similar equipment in hazardous areas. It heats the device thorough conduction. This is the easiest, safest and most economical method of freeze protection or temperature maintenance.

2 Special Features and Advantages

- Energy saving
- Space saving
- The hole pattern is according to the SP76.00.02 Standard.

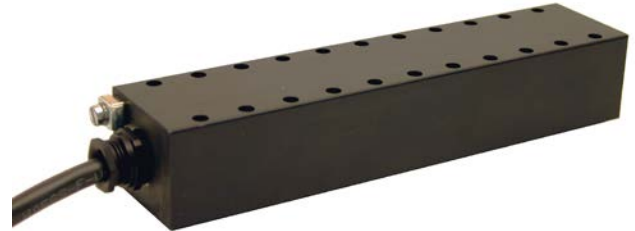
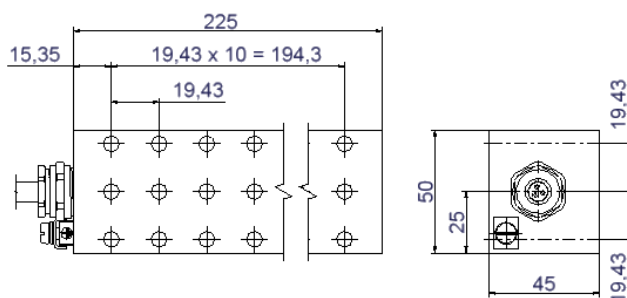
3 Description

BLOCKTHERM is an aluminum heating block. An electrical cartridge inside the block heats the block and the heat is transferred to the application through conduction. Explosion-proof versions are equipped with a ground terminal and a different name plate.

4 Performance

A conduction heater requires considerably less power than a finned convection heater, as the heat conduction efficiency is much better than those of air. The air surrounding the whole installation in the enclosure serves as additional insulation. The INTERTEC heaters CP ...THERM, (CP= Constant Power) are manufactured with a constant resistance heater cartridge. In these heater cartridges there is a temperature limiter, which will shut down the heater in an over-heating situation.

5 Dimension



6 Explosion Protection

EC examination certificate	PTB 02 ATEX 1041 X
IEC Scheme Certificate	IECEx PTB 07.0052X
IEC Scheme Type of Protection	II 2G Ex db IIC T6, T5, T4, T3 II 2D Ex tb IIIC T85°C T100°C, T135°C, T200°C

7 Technical Data

Ex-Types	CP BLOCKTHERM	
	DPA 200 T3	DPA 125 T4
Temperature class	T3	T4
Nominal voltage	120 / 230 V	
Nominal power	200 W	125 W
Ambient temperature range	-60 to +180°C	
Protection degree	IP68	
Material	Seawater-proof aluminium, black anodized	

All INTERTEC explosion-proof heaters can also be supplied to American NEC standard (CSA/NRTL)

Non Explosion-proof Models	CP BLOCKTHERM	
	NPA 200	NPA 125
Nominal voltage	120 / 230 V	
Nominal power	200W	125W
Ambient temperature Range	-60 to +200°C	
Protection degree	IP68	

8 Options

AM	Failure alarm opens at < +5°C
3M	Connection cable 3m long

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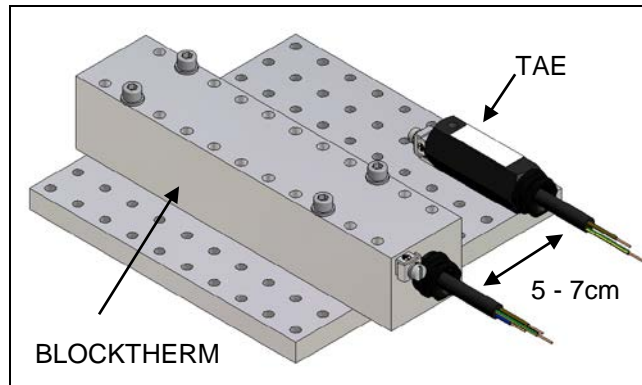


9 Temperature Limitation

The heater has to be managed by a temperature controller

Recommended is a TAE ATEX ii controller, which shall be, according to point 10 (Mounting), positioned about 5-7 cm away from the heater. The heater and the TAE shall have a good thermal contact to each other. When commissioning the heater, the surface temperature of the heater shall be measured. If the surface temperature exceeds T3: +125°C or T4: +65°C and the TAE has not yet switched off the heater, the thermal conduction between the heater and the TAE is not good enough. The heater must be switched off at once and the thermal connection between the heater and the TAE controller must be improved. The temperature test shall be repeated.

11 Mounting



The heater transfers its heat through conduction. Therefore it must be mounted onto a flat surface which has good heat conduction properties, metal for example. The heater shall be attached to a flat metal surface with at least four screws.

10 Electric Wiring

