



Explosion proof electrical heater type HEX



Version HEX 5-1.08 with temperature controller integrated in the terminal box and version HEX 5-2.08 with temperature controller to be mounted externally

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Special Features

Suitable for heated M&C-components

Mounting by M&C

For Ex-zone 2 and 22 / Class I Division 2

Approval according to ATEX, FM and CSA

Heating up to max. 230°C

With over temperature limiter and low temperature alarm

M&C Application

The M&C-electrical heaters type HEX 5 are used in combination with heated M&C-components, that shall be used in Ex-zone 2 respectively Class I Division 2. They have an FM and CSA approval for Class I Division 2, Groups A/B/C/D and ATEX protection class II 3 G Ex nA nC nL IIC T2 - T5 and II 3 D Ex tD A22 IP65 T75°C - T235°C.

M&C Description

The electrical heaters type HEX 5 are conceived for the heating of for example M&C gas sample probes series SP... and filters FT-H... However, they can also be used for the heating of any other product as far as it is possible from the constructional side. The mounting to the respective object to be heated is executed by M&C.

The heater consists of an aluminium plate with a heating element, an electronic temperature controller with limiter and a temperature sensor (PT100).

There are two versions available:

Type HEX 5-1.08 Heating unit with temperature controller integrated in the terminal box
 Typ HEX 5-2.08 Heating unit with terminal box and temperature controller in a wall mounting housing to be mounted externally.

The programming of the controller is to be done at works. The following closing will protect the equipment against non-authorized access.

The temperature controller is equipped with an over temperature limiter which shuts off automatically the heating in case the adjusted nominal temperature is exceeded by 5°C. The restart is to be effected by interrupting the distribution voltage or by actuating the exit key.

For monitoring the temperature, the temperature controller is equipped with a low temperature alarm which responses in case of the temperature falling below 5 °C of the nominal temperature. This status alarm is available as potential-free contact on the terminal strip.

Electrical heater	Version HEX 5-1.08, internal controller	Version HEX 5-2.08, external controller
Part-No. 230V/50Hz Part-No. 115V/60Hz	20S9650 20S9650a	20S9655 20S9655a
Operating temperature	0 - max. 230 °C according temperature class	
Protection	IP65	
Ex-protection heater		ATEX
Ex-protection controller		ATEX
Certificate No.	ATEX: BVS 09 ATEX E 107 FM: No. 3018454 CSA: No.1480900	
Ambient temperature	controller: 0°C bis +50°C	controller wall mounting housing: 0°C bis +50°C heater: -20°C bis +70°C
Temperature status alarm	-5°C to T _{set} make contact potential-free capacity 250V 3A AC, 0,25A DC	
Electrical connection	cable gland, terminal range 6 - 12mm, terminals max. 4mm ²	
Power supply	240V 50/60Hz max. 800W alternatively 120V 50/60Hz max. 830W	

M&C | Temperature Classes (Please indicate desired temperature class with your order)

Part number	T-Class ATEX Cenelec/IEC/NEC 505	T-Class FM/CSA NEC 500	Operating Temperature °C	Limiter °C
20S9608	T2	T2	230	235
20S9609		T2A	215	220
20S9610	T3	T2B	185	190
20S9611		T2C	175	180
20S9612		T2D	160	165
20S9613		T3	150	155
20S9614		T3A	135	140
20S9615	T4	T3C	120	125
20S9616		T4	95	100
20S9617	T5	T4A	85	90
20S9618		T5	70	75

The programming and closing of the controller is effected at works in compliance with the indications in your order.