IR2M…Ex

Mechanical capillary temperature controller for use in hazardous area.

Mechanical Controller Ex

- Compact design
- 16A/230V switching capacity
- Cross section 4/6mm²
- 4/6mm sensor diameter
- Resistant against chemical influences

Description

The Ex-Temperature Controller devices of the IR2M-Series are mechanical 2-point capillary temperature controller.

The black glass fiber enhanced polyester enclosure is very rugged and is used as a connector for single core heating cables as well as self-limiting heating cables.
This controller can handle a switching capacity of 16A directly.

When exceeding the adjusted temperature, the controller switches off.

Technical Data

Min. Ambient Temp.:	-55°C
Switching Capacity:	16A/230V (16A/400V and 25A/230V upon request)
Material:	Glass Fiber Reinforced Polyester
Protection Class:	IP66
Temperature Class:	T6 at +50°C

Ordering Information

Part number:

IR2M-0205Ex	Temperature range: -20°C..+50°C
IR2M0012Ex:	Temperature range: 0°C..+120°C
IR2M0019Ex:	Temperature range: 0°C..+190°C
IR2M0630Ex:	Temperature range: +60°C..+300°C
IR2M1450Ex:	Temperature range: +140°C..+500°C

Further temperature ranges upon request.

Marking

II 2G Ex ed IIC T6
II 2D Ex tb IIIC T80°C IP66

Further Information

Please consult the installation instructions!

Approval

ATEX, IECEx, EAC

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Standard Versions

Additional Technical Data

Temperature Range (°C)	**-20…50**	**0…120**	**0…190**	**60…300**	**140…500**
Rating Voltage (VAC)	230	230	230	230	230
Switching Capacity (cos φ = 1) (A)	16	16	16	16	16
Switching Difference (%) of Full Scale Value approx	7	7	7	7	7
Max. Sensor Temperature(°C)	80	145	220	345	530
Protection Class	IP66	IP66	IP66	IP66	IP66
Capillary Tube Length (mm)	1000	1000	1000	1000	1000
Capillary Diameter (mm)	6	4	4	6	6
Dimensions (LxWxH in mm)	122x120x90	122x120x90	122x120x90	122x120x90	122x120x90
Cable Glands M20/M25	1/1	1/1	1/1	1/1	1/1
Clamping Zone M20/M25 (mm)	7-13/12-17	7-13/12-17	7-13/12-17	7-13/12-17	7-13/12-17
Cross Section (mm²)	4/6	4/6	4/6	4/6	4/6
Weight (kg)	1.2	1.2	1.2	1.2	1.2

Wiring Diagram