

# Temperature controller and limiter WEXEXCMP



Comprehensive solution for controlling and limiting the temperature in areas with potentially explosive gas or dust atmospheres for zones 1/2 and 21/22, installed outside the hazardous area in a control cabinet (rail mounting).

Specifications		Explosion protection marking
Power supply	24-265 VAC (50-60 Hz) / DC	<b>Marking</b>
Sensor	PT100 (EX-i) 3 / 2 wire circuit	Gas  II 2G [Ex ib] IIC / IIB Dust  II 2D [Ex ib] IIIC / IIIB
Intrinsically safe measuring circuit	[Ex ib] IIC U <sub>o</sub> = 2.6 V, I <sub>o</sub> = 6.8 mA, max. C <sub>o</sub> = 6.7 µF, max. L <sub>o</sub> = 50 mH [Ex ib] IIB U <sub>o</sub> = 2.6 V, I <sub>o</sub> = 6.8 mA, max. C <sub>o</sub> = 36 µF, max. L <sub>o</sub> = 50 mH	-20°C ≤ T <sub>a</sub> ≤ +50 °C (ambient temperature)
Protection degree	IP 20 acc. to EN 60529	<u>EC-type examination certificates</u>
Measuring range	0...450 °C	TÜV 10 ATEX 555822 (electronic temperature controller) TÜV 08 ATEX 554381 (electronic temperature limiter)
Dimensions LxWxH / Weight	45 x 31 x 58 mm / ca. 82 gr solid-state relay 45 x 75 x 110 mm / ca. 220 gr limiter 45 x 57 x 58 mm / ca. 180 gr contactor 55 x 75 x 110 mm / ca. 270 gr controller	<u>Features</u>
Material	Polycarbonate, mounting for standard rail EN 50022 (housing)	<ul style="list-style-type: none"> <li>• Measurement display with 7-segment-LED's</li> <li>• Switching point accuracy &lt; 1 K</li> <li>• Controller hysteresis 2 K</li> <li>• Relay outputs CO 5 A, 250 V</li> <li>• Relay output limiter 1 NC 5 A 250 V</li> </ul>
		<u>Important note:</u> The device components are to be mounted and interconnected in a control cabinet outside the hazardous area (protection degree at least IP30). The applicable regulations and the enclosed assembly instructions must be considered.

## Components



Solid-state relay

Electronic temperature controller (intrinsic safe)

Power contactor

Electronic temperature limiter (intrinsic safe)

WEXEXREG

WEXEXBEG