Technical specifications: CC33



Measuring principle	Catalytic combustion (CC)
Measuring gas supply	Diffusion
Power supply Operating voltage: Max. error voltage:	24V DC (12-30V DC zulässig) 60V DC (mit Buzzer)
Power consumption without buzzer with MK217: with MK208: without buzzer with MK217: with MK208: Fuses:	RS485 version typ. 48/58/82mA @24V/18V/12V typ. 65/84/123mA @24V/18V/12V max. 60/77/113mA @24V/18V/12V max. 80/103/152mA @24V/18V/12V max. 80/103/152mA @24V/18V/12V 250mA (not exchangeable) 4-20mA version max. 70/80/104mA @24V/18V/12V max. 87/106/145mA @24V/18V/12V max. 82/99/135mA @24V/18V/12V max. 102/125/174mA @24V/18V/12V
Climatic conditions Short-term storage temperature: Recommended storage temperature: Operating temperature: Humidity: Air pressure:	-25+60°C 0+30°C -20+55°C or +40°C (Ex-protection- and sensor dependent) 595% r.h. (sensor dependent) 80120kPa (sensor dependent)
Display & controls Status-LEDs: Alarm-LEDs: Display: Buttons:	1x 5 mm green for operation (left of display) 1x 5 mm yellow for fault or service (right of the display) 3x 5 mm red for relay or buzzer (top) 2x 10mm red for gas alarm (left and right above the display) 2,2" graphic display 3 function buttons (can only be operated with a magnetic rod)
Service connector Design: Digital input:	3,5 mm stereo jack socket (internal) for configuration and firmware update
Signal output analogue: or digital:	420mA (ACDC capable) max. load: $800\Omega/800\Omega/500\Omega$ @12V/18V/24V supply RS485; Half-Duplex; max. 38400 Baud; Modbus RTU protocol, slide switch for 120Ω Terminating resistor
Connection Cable Cable glands: Connection terminals: Cable (analogue): Cable (digital):	1 or 2 pieces 3, 8, 12 or 17 pieces depending on the version (for 0.082.5mm² conductor cross-section) 3-core e.g. 3x 0.5 / 3x 0.75 / 3x 1.5mm² 4-core e.g. 4x 0.5 / 4x 0.75 / 4x 1.5mm²
Housing Protection class: Material: Dimensions: Weight:	IP67 when using a thread seal (e.g. with Teflon tape) IP54 without additional thread sealing Die-cast aluminium or stainless steel 145 x 169 x 128mm (W x H x D) with sensor 1,60kg with die-cast aluminium housing 3,13kg with stainless steel housing
Approvals / Tests Markings and ignition protection types:	 ⑤ II 2G Ex db IIC T6 Gb -20°C≤Ta≤+55°C (without Buzzer) ⑥ II 2G Ex db ib IIC T4 Gb -20°C≤Ta≤+55°C (with Buzzer) ⑥ II 2G Ex db ib IIC T6 Gb -20°C≤Ta≤+40°C (with Buzzer)
Electromagnetic compability:	DIN EN 50270:2015 Interference emission: Type class I Interference immunity: Type class II

