

# Technical specifications:

## CC33



<b>Measuring principle</b>	Catalytic combustion (CC)	
<b>Measuring gas supply</b>	Diffusion	
<b>Power supply</b>	Operating voltage:	24V DC (12-30V DC zulässig)
	Max. error voltage:	60V DC (mit Buzzer)
	Power consumption	<u>RS485 version</u>
	without buzzer with MK217:	typ. 48/58/82mA @24V/18V/12V
	with MK208:	typ. 65/84/123mA @24V/18V/12V
	without buzzer with MK217:	max. 60/77/113mA @24V/18V/12V
	with MK208:	max. 80/103/152mA @24V/18V/12V
	Fuses:	250mA (not exchangeable)
		<u>4-20mA version</u>
		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
<b>Climatic conditions</b>	Short-term storage temperature:	-25...+60°C
	Recommended storage temperature:	0...+30°C
	Operating temperature:	-20...+55°C or +40°C (Ex-protection- and sensor dependent)
	Humidity:	5...95% r.h. (sensor dependent)
	Air pressure:	80...120kPa (sensor dependent)
<b>Display &amp; controls</b>	Status-LEDs:	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)
	Alarm-LEDs:	2x 10mm red for gas alarm (left and right above the display)
	Display:	2,2" graphic display
	Buttons:	3 function buttons (can only be operated with a magnetic rod)
<b>Service connector</b>	Design:	3,5 mm stereo jack socket (internal)
	Digital input:	for configuration and firmware update
<b>Signal output</b>	analogue:	4...20mA (ACDC capable) max. load: 800Ω/800Ω/500Ω @12V/18V/24V supply
	or digital:	RS485; Half-Duplex; max. 38400 Baud; Modbus RTU protocol, slide switch for 120Ω Terminating resistor
<b>Connection Cable</b>	Cable glands:	1 or 2 pieces
	Connection terminals:	3, 8, 12 or 17 pieces depending on the version (for 0.08...2.5mm <sup>2</sup> conductor cross-section)
	Cable (analogue):	3-core e.g. 3x 0.5 / 3x 0.75 / 3x 1.5mm <sup>2</sup>
	Cable (digital):	4-core e.g. 4x 0.5 / 4x 0.75 / 4x 1.5mm <sup>2</sup>
<b>Housing</b>	Protection class:	IP67 when using a thread seal (e.g. with Teflon tape) IP54 without additional thread sealing
	Material:	Die-cast aluminium or stainless steel
	Dimensions:	145 x 169 x 128mm (W x H x D) with sensor
	Weight:	1,60kg with die-cast aluminium housing 3,13kg with stainless steel housing
<b>Approvals / Tests</b>	Markings and ignition protection types:	Ⓜ II 2G Ex db IIC T6 Gb -20°C ≤ Ta ≤ +55°C (without Buzzer) Ⓜ II 2G Ex db ib IIC T4 Gb -20°C ≤ Ta ≤ +55°C (with Buzzer) Ⓜ II 2G Ex db ib IIC T6 Gb -20°C ≤ Ta ≤ +40°C (with Buzzer)
	Electromagnetic compatibility:	DIN EN 50270:2015 Interference emission: Type class I Interference immunity: Type class II