Technical specifications: CC33

Measuring principle: Catalytic combustion (CC)

Measuring gas supply: Diffusion

Power supply:
- Operating voltage: 24V DC (12-30V DC zulässig)
- Max. error voltage: 60V DC (mit Buzzer)
- Power consumption without buzzer with MK217:
  - typ. 48/58/82mA @24V/18V/12V
  - max. 60/77/113mA @24V/18V/12V

Power consumption with MK208:
- typ. 65/84/123mA @24V/18V/12V
- max. 80/103/152mA @24V/18V/12V

Fuses:
- 24V DC (12-30V DC zulässig)
- 60V DC (mit Buzzer)

Climatic conditions:
- 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.
- Air pressure: 80...120kPa (sensor dependent)

Display & controls:
- Status-LEDs: 1x 5 mm green for operation (left of display)
  1x 5 mm yellow for fault or service (right of the display)
- Alarm-LEDs: 3x 5 mm red for relay or buzzer (top)
  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)

Service connector:
- Design: 3,5 mm stereo jack socket (internal)
  for configuration and firmware update

Signal output:
- Analogue: 4...20mA (ACDC capable)
  max. load: 800Ω/800Ω/500Ω @12V/18V/24V supply
- RS485: Half-Duplex; max. 38400 Baud; Modbus RTU protocol,
  slide switch for 120Ω Terminating resistor

Connection Cable:
- Cable glands: 1 or 2 pieces
- Connection terminals: 3, 8, 12 or 17 pieces depending on the version (for 0.08...2.5mm² conductor cross-section)
- Cable (analogue): 3-core e.g. 3x 0.5 / 3x 0.75 / 3x 1.5mm²
- Cable (digital): 4-core e.g. 4x 0.5 / 4x 0.75 / 4x 1.5mm²

Housing:
- 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

Approvals / Tests:
- 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)

Electromagnetic compatibility: DIN EN 50270:2013
- Interference emission: Type class I
  Interference immunity: Type class II