Technical specifications: CC22 / CC22 D

Measuring principle: Catalytic combustion (CC)

Measuring gas supply: Diffusion

Measuring range and measuring gas: sensor dependent

Update time: 1s

Readiness delay: 5s plus 90s inflow phase of the sensors (heating up)

Power supply:
- Operating voltage: 24V DC (12-30V DC allowable)
- Power consumption:
  - without display (MK217): typ. 42/50/70mA @24V/18V/12V
  - with display (MK217): typ. 48/58/82mA @24V/18V/12V
  - with display+horn (MK217): max.55/68/100mA @24V/18V/12V
  - without display (MK91): typ. 58/73/105mA @24V/18V/12V
  - with display (MK91): typ. 65/82/118mA @24V/18V/12V
  - with display+horn (MK91): max.72/92/132mA @24V/18V/12V
  - Fuses: 250mA (not changeable)

Climatic conditions:
- Short-term storage temperature: -25...+60°C
- Recommended storage temperature: 0...+30°C
- Operating temperature: -20...+50°C (sensor dependent)
- Humidity: 5...90% r.h. (sensor dependent)
- Air pressure: 80...120kPa (sensor dependent)

Display & controls:
- Status-LEDs: green for operation and yellow for fault or service
- Display: 2,2" graphic display
- Buttons: 3 function buttons
- AutoCal-& Reset-button: for acknowledging exceeded measuring ranges as well as for ZERO and SPAN adjustment (inboard)
- Potentiometer: for ZERO and SPAN adjustment (inboard)

Service connector:
- Design: 3,5 mm stereo jack socket (internal)
- Analogue output: 0.2-1.0V corresponding to 0 - 100% MR for sensor calibration
- Digital input: for configuration and firmware update

Signal output:
- Analogue:
  - typ. 4-20mA (max. load: 150Ω/400Ω/650Ω @12V/18V/24V supply)
  - typ. 0.2-1mA (max. load: 4K5/9K3/14K1 @12V/18V/24V supply)
- Digital:
  - 485S: half duplex; 9600/19200/38400 bauds; Modbus protocol, Sliding switch for 120Ω termination resistor

Connection Cable:
- Cable glands: 1 or 2 piece M16 x 1.5 (for cable diameter 4.5-10mm)
- Connection terminals: 4 double terminals (for 0.06 - 2.5 mm² Conductor cross-section)
- Cable (analogue):
  - 3-wire e.g. LYY 3 x 0.75 – 1.5mm² or LIVYY
  - 4-wire e.g. LYY 4 x 0.50 to 1.5mm² or bus line Y(St)Y 2x2x0.8 *
- Cable (digital):
  - 4-wire e.g. LYY 4 x 0.50 to 1.5mm² or bus line Y(St)Y 2x2x0.8 *

Housing:
- Protection class: IP54
- Material: Plastic
- Dimensions: 96 x 140 x 49 mm (W x H x D) with sensor
- Weight: 175g or 220g (with display)

Approvals / Tests:
- Electromagnetic compatibility: DIN EN 50270:2015
- Interference emission: Type class I
- Interference immunity: Type class II

* Bus line cable Y(St)Y 2x2x0.8 is only suitable for supplying several bus transmitters with power using the same cable via short cabling distances. The possible distance depends on the number and local arrangement of the transmitters on the bus cable.