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	RS485 and 0,2-1mA version	4-20mA version	
without display (MK217):	typ. 42/50/70mA @24V/18V/12V	max.64/72/92mA @24V/18V/12V	
with display (MK217):	typ. 48/58/82mA @24V/18V/12V	max.70/80/104mA @24V/18V/12V	
with display+horn (MK217):	max.55/68/100mA @24V/18V/12V	max.77/90/122mA @24V/18V/12V	
without display (MK91):	typ. 58/73/105mA @24V/18V/12V	max.80/95/127mA @24V/18V/12V	
with display (MK91):	typ. 65/82/118mA @24V/18V/12V	max.87/104/140mA @24V/18V/12V	
with display+horn (MK91):	max.72/92/132mA @24V/18V/12V	max.94/114/154mA @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:	4-20mA (max. load: 150Ω/400Ω/650Ω @12V/18V/24V supply) 0.2-1mA (max. load: 4K5/9K3/14K1 @12V/18V/24V supply)		
or digital:	RS485; 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 0.08 - 2.5 mm^2 Conductor cross-section)		
Cable (analogue):	3-wire e.g. LiYY 3 x 0.75 – 1.5mm^2 or LiYCY		
Cable (digital):	4-wire e.g. LiYY 4 x 0.50 to 1.5mm^2 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 compability:	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.

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