

# Technical specifications: CC22 / CC22 D



<b>Measuring principle</b>	Catalytic combustion (CC)	
<b>Measuring gas supply</b>	Diffusion	
<b>Measuring range and measuring gas</b>	sensor dependent	
<b>Update time</b>	1s	
<b>Readiness delay</b>	5s plus 90s inflow phase of the sensors (heating up)	
<b>Power supply</b>	Operating voltage:	24V DC (12-30V DC allowable)
	Power consumption	<u>RS485 and 0,2-1mA version</u> <u>4-20mA version</u>
	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)
<b>Climatic conditions</b>	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)
<b>Display &amp; controls</b>	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)
<b>Service connector</b>	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
<b>Signal output</b>	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
<b>Connection Cable</b>	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 <sup>2</sup> Conductor cross-section)
	Cable (analogue):	3-wire e.g. LiYY 3 x 0.75 – 1.5mm <sup>2</sup> or LiYCY
	Cable (digital):	4-wire e.g. LiYY 4 x 0.50 to 1.5mm <sup>2</sup> or bus line Y(St)Y 2x2x0.8 *
<b>Housing</b>	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)
<b>Approvals / Tests</b>	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.