## Technical specifications: CS22 / CS22 D



Measuring gas supply	Diffusion
Measuring range and measuring gas	sensor dependent
Update time	1s
Readiness delay	5s plus 120s sensor run-in phase (heating up)
Power supply  Operating voltage:	24V DC (12-30V DC allowable)
Power consumption without display *1: with display *1: with display+horn *1: without display *2: with display *2: with display+horn *2: Fuses:	RS485 and 0,2-1mA version typ. 50/62/86mA @24V/18V/12V max.66/82/115mA @24V/18V/12V max.66/82/115mA @24V/18V/12V typ. 60/75/106mA @24V/18V/12V typ. 67/84/120mA @24V/18V/12V max.75/95/135mA @24V/18V/12V max.75/95/135mA @24V/18V/12V 250mA (not changeable)  4-20mA version max.72/84/108mA @24V/18V/12V max.78/92/122mA @24V/18V/12V max.88/104/137mA @24V/18V/12V max.88/104/137mA @24V/18V/12V max.89/106/142mA @24V/18V/12V max.97/117/157mA @24V/18V/12V
Climatic conditions	
Short-term storage temperature: Recommended storage temperature: Operating temperature: Humidity: Air pressure:	-25+60°C 0+30°C -20+50°C (sensor dependent) 590% r.h. (sensor dependent) 80120kPa (sensor dependent)
Display & controls	
Status-LEDs: Display: Buttons: AutoCal button: Potentiometer:	green for operation and yellow for fault or service 2,2" graphic display 3 function buttons (display version only) for ZERO and SPAN adjustment (inboard) for ZERO and SPAN adjustment (inboard)
Service connector	
Design: Analogue output: Digital input:	3,5 mm stereo jack socket (internal) 0.2-1.0V corresponding to 0-100% MR for sensor calibration for configuration and firmware update
Signal output	
analogue: or digital:	4-20mA (max. load: 400 $\Omega$ /650 $\Omega$ /150 $\Omega$ @24 V/18 V/12 V supply) 0.2-1mA (max. load: 14K/9K3/14K5 @ 24 V/18 V/12 V supply) RS-485; Half duplex; 9600/19200/38400 Baud; Modbus protocol, Slide switch for 120 $\Omega$ terminating resistor
Connection Cable	
Cable glands: Connection terminals: Cable (analogue): Cable (digital):	1 or 2 glands M16x1.5 (for cable diameter 4.5-10 mm) 4 double terminals (0.08 mm² to 2.5 mm² conductor cross-section) 3-core e.g. LiYY 3x0.751.5 mm² or LiYCY 4-core e.g. LiYY 4x0.751.5 mm² or cable Y(St)Y 2x2x0.8 *3
Housing  Protection class:  Material:  Dimensions:  Weight:	IP54 Plastic 96 x 140 x 49 mm (W x H x D) with sensor 175g or 220g (with display)
Approvals / Tests  Electromagnetic compability:	DIN EN 50270:2015 Interference emission: Type class I

Interference immunity: Type class II

to \*1: For low power sensor MK147

to \*2: For high power sensors MK144, MK322, MK327, MK328 and MK370

to \*3: The cable Y(St)Y 2x2x0.8 is suitable for powering several bus transmitters via the same cable only for short cable runs. The maximum possible distance depends on the number and local distribution of the transmitters on the bus cable.

