

Technical specifications: EC22 / EC22 D



Measuring principle	Electrochemical (EC)		
Measuring gas supply	Diffusion		
Measuring range and measuring gas	sensor dependent		
Update time	1s		
Readiness delay	5s plus 20-90s sensor run-in phase		
Power supply	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:	typ. 10/12/14mA @24V/18V/12V	max. 32/34/36mA @24V/18V/12V
	with display:	typ. 16/20/26mA @24V/18V/12V	max. 38/42/48mA @24V/18V/12V
	with display+horn:	max. 25/30/40mA @24V/18V/12V	max. 47/52/62mA @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:	20...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 (display version only)	
	AutoCal button:	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: 400 Ω/650 Ω/150 Ω @24 V/18 V/12 V supply) 0.2-1mA (max. load: 14K/9K3/4K5 @ 24 V/18 V/12 V supply)	
	or digital:	RS-485; Half duplex; 9600/19200/38400 Baud; Modbus protocol, Slide switch for 120 Ω terminating resistor	
Connection Cable	Cable glands:	1 or 2 glands M16x1.5 (for cable diameter 4.5-10 mm)	
	Connection terminals:	4 double terminals (0.08 mm ² to 2.5 mm ² conductor cross-section)	
	Cable (analogue):	3-core e.g. LiYY 3x0.34...0.75 mm ² or LiYCY	
	Cable (digital):	4-core e.g. LiYY 4x0.50...1.5 mm ² or cable Y(St)Y 2x2x0.8 *	
Housing	Protection class:	IP54	
	Material:	Plastic	
	Dimensions:	96 x 123 x 49 mm (W x H x D) with sensor	
	Weight:	120-150g bzw. 170-195g (display version)	
Approvals / Tests	Electromagnetic compability:	DIN EN 50270:2015	Interference emission: Type class I Interference immunity: Type class II

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