

Technical specifications:

EC22 DS



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 (6-30V DC allowable)
	Power consumption:	typ. 5mA@24V; 6mA@18V; 8mA@12V; 14mA@6V
	Fuses:	110mA (self-resetting)
Climatic conditions	Short-term storage temperature:	-25...+60°C (sensor dependent)
	Recommended storage temperature:	0...+30°C (sensor dependent)
	Operating temperature:	-20...+50°C (sensor dependent)
	Humidity:	15...95% r.h. (sensor dependent)
	Air pressure:	80...120kPa (sensor dependent)
Display & controls	Status-LEDs:	green for operation and yellow for fault or service
	AutoCal magnetic contact:	for ZERO and SPAN adjustment (inboard)
Service connector	Design:	3,5 mm stereo jack socket (internal)
	Digital input:	for configuration and firmware update
Signal output	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:	4-core e.g. control cable LiYCY or LiYY 4x0,5...1,0...(1,5)mm ² or bus cable Y(St)Y 2x2x1,0mm ² or 2x2x0,8mm ² *
Housing	Protection class:	IP40
	Material:	Plastic PC
	Dimensions:	96 x 123x 49 mm (W x H x D)
	Weight:	125-150g
Approvals / Tests	Electromagnetic compatibility:	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.