

Technical specifications:

IR22 / IR22 D



Measuring principle	Infrared (IR)	
Measuring gas supply	Diffusion	
Measuring range and measuring gas	sensor dependent	
Update time	1s	
Readiness delay	5s plus 60s sensor run-in phase (heating-up)	
Power supply	Operating voltage:	24V DC (12-30V DC allowable)
	Power consumption without display *1:	<u>RS485 and 0,2-1mA version</u> typ. 15/18/21mA @24V/18V/12V
	with display *1:	typ. 20/25/33mA @24V/18V/12V
	with display+horn *1:	max. 30/38/50mA @24V/18V/12V
	Fuses:	250mA (not changeable)
		<u>4-20mA version</u> max. 37/40/43mA @24V/18V/12V
		max. 42/47/55mA @24V/18V/12V
		max. 52/60/72mA @24V/18V/12V
Climatic conditions	Short-term storage temperature:	-25...+60°C
	Recommended storage temperature:	0...+30°C
	Operating temperature:	-25...+50°C
	Humidity:	0...95% r.h.
	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 compatibility:	DIN EN 50270:2015 Interference emission: Type class I Interference immunity: Type class II

to *1: For low-power sensors MK250, MK251, MK252, MK253, MK254 and MK260

to *2: The bus line Y(St)Y 2x2x0,8 is for the power supply of several bus transmitters via the same cable. only suitable for short cable runs.
The possible distance depends on the number and the local distribution of the transmitter on the bus cable.