MEASUREMENT TRANSDUCER FOR CO2, HUMIDITY AND TEMPERATURE - CF1



THE COMPACT MEASUREMENT TRANSDUCER.

- Measures CO₂, relative humidity, and temperature
- Hygromer® IN-1 humidity sensor
- Adjustable at 35 %RH or 80 %RH
- Scalable analog voltage or current outputs
- Single-relay output
- Small size
- Compatible with HW4 software
- Three programmable LEDs









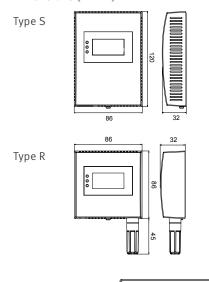


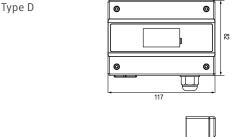
TECHNICAL INFORMATION

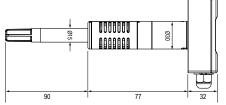
The CF1 series is the latest development in reasonably-priced CO2 measurement transducers with integrated humidity and temperature measurement. The unit has the proven Hygromer® IN1 sensor, and an unrivalled price-performance ratio. Its elegant design fits in perfectly in offices, living-rooms, public buildings, etc.

With the Rotronic SW21/HW4 software, altering the scaling is a simple matter, and the measurement transducer can be adjusted and calibrated in the humidity and CO2 ranges.

Dimensions (in mm)







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General Specifications	1000
Device type / Parameters	Humidity / temperature and CO2
Range of application	Electronics: 0 50 °C Measuring range probe dependent
Dower cupply	0 100 %RH, non-condensing 1228 VAC / 1540 VDC
Power supply Current Consumption	86.5 mA
•	AIII C.00
Humidity measurement	DOTDONIC II. care as a reliable
Humidity sensor	ROTRONIC Hygromer® IN1
Precision at 23 °C ± 5 K	(3 % RH (1090 %RH)
Adjustment points	35, 80 %RH
Long-Term Stability	<1.5 %RH per year
Response time τ63	30s (63 % of a rise 35 80 %RH) without filter
Temperature measurement	
Sensor	Thermistor
Standard temperature scaling	050 °C or 0100 °F
Precision at 23 °C ± 5 K	±0.3, ±1 K type S with display
Response time τ63	4 s
CO2 measurement	
Measurement principle	Infrared (NDIR)
Measurement range	02000 ppm or 05000 ppm
Precision at 23 °C ± 5 K	
0 2000 ppm	± 40 ppm ± 3 % of measured value
0 5000 ppm	±10% of measured value
Adjustment points	400 ppm
Response time	(3 min diffusion time
Pressure dependence	+ 1.6 % of read-off per kPa
Analog outputs	
Number	3 analog outputs (1 for each parameter)
	The mA and V output is not exchangeable. It is always
	fixed as mA or V. CF132 is the current output, CF135 is
	the voltage output
Current output	420 mA
Voltage output	01 V / 10 V exchangeable via SW21/HW4 software
Load per output	V signal: ≥1k Ω / V ; mA signal: ≤500 Ω
Relay	Exchangeable via software for each parameter
	max. switching voltage: 30 VDC / 125 VAC
	max. switching load: 1A at 30 VDC / 0.5A at 125 VAC
Annuary / Cantaumitu	min. switching load: 0.01 mA at 10 mV DC
Approval / Conformity	Vac
RoHs conformity	Yes 2014/20/FU / FN(1000 (1 / FN(1000 (2
CE / EMC	2014/30/EU / EN61000-6-1 / EN61000-6-2 EN61000-6-3 / EN61000-6-4
Housing / Moshaniasi nauta	LINUTUUU-0-3 / EINUTUUU-0-4
Housing / Mechanical parts	ADC
Material	ABS
Dimensions	Type R: 131 x 86 x 32 (H, W, D) mm Type S: 120 x 86 x 32 (H, W, D) mm
	lung 1) · 87 v 117 v 37 (H W D) mm
IP protection class	Type D: 82x117x32 (H,W,P) mm
IP protection class	Type S/R: IP 30 Type D: IP 65, without probe
IP protection class Weight	

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