IP65

MHFC

Nov.10



Features

- Continuous monotoring
- Low zero point drift
- Poisoning stable
- Long life sensor
- Easy maintenance/calibration
- Reverse polarity protected
- Overload protected
- 4-20mA loop-powered or 2-10Vdc output signal

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Technical Data

Gas Freon

Detection principle Semiconductor

Response time <50sec
Sensor coverage 100m2

Measurement range 0-300ppm or 20-2000ppm

Storage time 12 months

2-10Vdc

Mounting height 0,2m above floor

Output signal

4-20mA load < 500ohm overload

and short circuit proofed load < 50kohm overload and short circuit proofed

Power supply 18-28Vdc (reverse polarity prot.)

Power consumption 22mA, max (0,6VA)

Expected lifetime >5 years normal operating

envirom.

Humidity range

Continuous 15-95% rH non-condensing

Operating range

Continuous -15 up to +50C

Rating IP65 Protection Class

Pressure range Atmospheric +/-10%

Application

For detection of refrigerant Freon gases HFC.

The transmitter is used for monotoring leakages in:

- Cold storage depots - Ventilation Systems

- Breweries

- Commericial range in cooling systems

Due to the analogue signal 4-20mA and 2-10Vdc the HCFC transmitter is compatible to any electronic analogue control, DDC/PLC control or automation system.

Ordering Codes

LHFCR134a	Refrigeration Detector	20-2000ppm
LHFC R404a	Refrigeration Detector	20-2000ppm
LHFC R416a	Refrigeration Detector	20-2000ppm
LHFCR507	Refrigeration Detector	20-2000ppm
LHFC R410a	Refrigeration Detector	20-2000ppm
LHFC R409a	Refrigeration Detector	20-2000ppm
LHFCR411a	Refrigeration Detector	20-2000ppm

GCD Protocol for CDA-series
GAS17 Calibration gas 17 liter

REG Pressure regulator flow adjusted to

0,5 lit/min.

Warning devices See special datasheet Warning signs See special datasheet

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Technical Data continue

Physical Characteristics

Enclosure GW Plast 75 GWT

Flammability UL94: VO Halogenfree

Enclosure colour RAL 7032 (light grey)

Dimensions 96 x 130 x 56mm

Weight Approx. 0,2kg

Installation Wall mounting

Cable entry Standard

Wire connection Screw type terminal min. 0,25mm2

and max 2,5mm2

Max. loop resistor 500ohm (= wire resistor + controller input

resistor)

Guidelines EMV-Directive 89/336/EWG, CE

EM-Directive 2004/108/EWG, CE

Maintanance

At commissioning and at periodic intervals determined by the person responsible for the gas detection system (recommendation every year).

After exchange of the sensor

If in case of operational or climatic influences the sensitivity of the sensor falls below 30 % in operation,

calibration will not be possible any more.

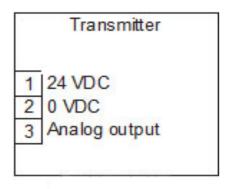
Then the sensor has to be changed.

Exchange of sensor element

Sensor should always be installed without power applied:

- Unplug basic PCB EC-S carefully from the terminal blocks on the base.
- Unplug old sensor element from the PCB EC-S.
- Plug in sensor element into the PCB EC-S.
- Plug in the PCB EC-S into terminal block carefully.
- Calibrate

Connecting Diagram



Terminal 2 is only for 2-10Vdc signal = 3-wire 4-20mA two-wire loop powered

Calibration

