Refr Dete	igeration ector IP6	65	MHCFC	Nov.10
		Features		
	(€	- Continuous m - Low zero poir	-	
e	···-	- Poisoning sta - Long life sen		
		- Easy mainten	ance/calibration	
0		- Reverse pola	rity protected	
0	MUOFO	- Overload pro	tected	
	MHCFC	- 4-20mA loop-	powered or 2-10Vdc outpu	ut signal
Technical Data		Application		
Gas	Freon	For detection of refrig	gerant Freon gases HCFC.	
<b>Detection principle</b>	Semiconductor	The transmitter is us	ed for monotoring leakage	s in:
	Semiconductor	- Cold storage depot		
Response time	<50sec	- Breweries		
Sensor coverage	100m2	- Commericial range	in cooling systems	
Measurement range	0-300ppm or 20-2000ppm		5 5 5 5 5	
Storage time	12 months	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.		
Mounting height	0,2m above floor	Ordering Codes		
Output signal				
4-20mA	load < 500ohm overload	MHCFC3R401a	Refrigeration Detector	0-300ppm
	and short circuit proofed	MHCFC3R401b	Refrigeration Detector	0-300ppm
2-10Vdc	load < 50kohm overload	MHCFC3 R402a MHCFC3 R402b	Refrigeration Detector Refrigeration Detector	0-300ppm 0-300ppm
	and short circuit proofed	MHCFC3 R402b	Refrigeration Detector	0-300ppm 0-300ppm
<b>_</b> .		MHCFC3R409a	Refrigeration Detector	0-300ppm
Power supply	18-28Vdc (reverse polarity prot.)	MHCFC3R22	Refrigeration Detector	0-300ppm
Power consumption	22mA, max (0,6VA <b>)</b>			
		MHCFC R401a	Refrigeration Detector	20-2000ppm
Expected lifetime	>5 years normal operating	MHCFCR401b	Refrigeration Detector	20-2000ppm
	envirom.	MHCFC R402a MHCFC R402b	Refrigeration Detector Refrigeration Detector	20-2000ppm 20-2000ppm
Humidity range		MHCFC R4020 MHCFC R408a	Refrigeration Detector	20-2000ppm 20-2000ppm
Continuous	15-95% rH non-condensing	MHCFC R408a	Refrigeration Detector	20-2000ppm 20-2000ppm
Operating range Continuous	-15 up to +50C	MHCFCR22	Refrigeration Detector	20-2000ppm
		CCD	Drotocol for ODA as its	
Rating	IP65 Protection Class	GCD GAS17	Protocol for CDA-series Calibration gas 17 liter	
Pressure range	Atmospheric +/-10%	REG	Pressure regulator flow	

REG

Warning devices

Warning signs

Automatikprodukter

0,5 lit/min.

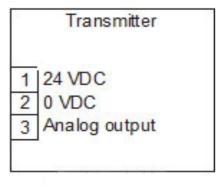
See special datasheet

See special datasheet

Pressure regulator flow adjusted to

	frigeration tector IP	65 MHCFC Nov.10		
Technical Data continue Physical Characteristics		Maintanance At commissioning and at periodic intervals determined by the person responsible for the gas detection system (recommendation every year).		
Enclosure	GW Plast 75 GWT			
Flammability Enclosure colour Dimensions	UL94: VO Halogenfree RAL 7032 (light grey) 96 x 130 x 56mm	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.		
Weight Installation	Approx. 0,2kg Wall mounting	Then the sensor has to be changed.		
Cable entry	Standard	Exchange of sensor element		
Wire connection	Screw type terminal min. 0,25mm2 and max 2,5mm2 Max. loop resistor 500ohm (= wire resistor + controller input resistor)	<ul> <li>Sensor should always be installed without power applied:</li> <li>Unplug basic PCB EC-S carefully from the terminal blocks on the base.</li> <li>Unplug old sensor element from the PCB EC-S.</li> <li>Plug in sensor element into the PCB EC-S.</li> <li>Plug in the PCB EC-S into terminal block</li> </ul>		
Guidelines	EMV-Directive 89/336/EWG, CE EM-Directive 2004/108/EWG, CE	<ul><li>carefully.</li><li>Calibrate</li></ul>		

## **Connecting Diagram**



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

## Calibration



white Decisi

## Calculation output signal

