Guardian
Controls

Gas Detector IP65 | Infra Red

404a · 407f · 454c · 448a
449a · 507f · CO$_2$

MT06XX

Gas Detector IP65

This detector measures levels every second in ppm for range of refrigerant gases. New gases can be added to the range as required or released to the market.

The detector transmits the latest levels value and alarm status using RD485 Modbus RTU communications whenever requested by a local or remote BMS/SCADA system.

The detector also provides one on/off volt free changeover alarm contact (3A) to control a local audible alarm, visual beacon or ventilator when the measured value exceeds a preset relay activation level.

The alarm relay can be selected to lockout after an alarm which then requires a remote reset command via the RS485 communications to clear the alarm relay contacts back to normal operation.

An alarm can be set to automatically clear when the level is below the relay de-activation level setting.

Two further alarm level settings and states may be set up for remote alarm level indication and messages using RS485 communications. These alarms are automatically reset when the level is below the alarm clear setting.

Features

Non-Dispersive Infra-Red Technology / Accurate & Reliable level measurement in ppm. / 1 Relay Output 2 Alarm/Warning Level Settings / Volt Free C/O Relay Contact Example use - fans, beacon or plant shut down / Relay lockout option with remote reset / RS485 Modbus RTU communications / Programmable setpoints & timers / Address selection by internal button & LED. / Wall mounts with 2 screws / 12/24 vdc supply required.

Specification

Target Gas	Range of refrigerant gases
Operating Principle	Non-Dispersive Infra-Red
Measurement Range	0-2000 ppm / 0-5000 ppm
Accuracy	+/- 2% of FS
Response Time	T90<60s
Rate of Measurement	0.5 Hz
Operating Temperature	-30°C to + 70°C
Operating Humidity	0-95% RH Non Condensing
Storage Temperature	-40°C to + 70°C
Housing	ABS IP65
Wall Mount	Secured by 2 screws
Dimensions	185mm (L) x 120mm(W) x 75mm (H)
Power Supply	12/24 vdc 0.2A
Warm Up Time	1 minute
Stability	<2% FSD
Life Expectancy	10-12 years
Serial Communications	RS485 Modbus RTU at 19200 baud
Changeover Relay	230 vAC 3A Max
Relay	De-energise for Alarm Auto or Manual Reset Selection
Compliance	RoHS Directive 2002/95/EG Immunity EN61000-6-3 2007 Emmission EN61000-6-2-2007
Standard	CE Approved