



CX0503-MIR INFRARED COMBUSTIBLE GAS MONITOR

LED Photometric Sensor, Combustible Hydrocarbon Gases,
XP Housed, Stand-Alone Monitoring, Multi-System Compatible

Features

- MIR LED photometric sensor technology
- Outputs, Analog, ModBus, Relays-Fault, Alarm 1, Alarm 2
- Sensor Fail Safe Operation
- Improved sensor stability and accuracy
- Longer operational sensor life
- Sensor resistant to destabilizing temperature factors
- RFI & EMI protected
- Simple, quick, precise calibrations
- Automatic reset after power Interruption
- Clear LCD display
- Hand-Held IR programmer for setup and calibration
- Class I groups B,C,D Div 1,2, Class II groups E,F,G Div 1,2, Class III Nema 4X Enclosure

The CX0503-MIR is a “SMART” gas detector bringing the newest ultra low powered infrared sensor designed to accurately monitor Methane (CH₄) and Heavy Hydrocarbon gases.

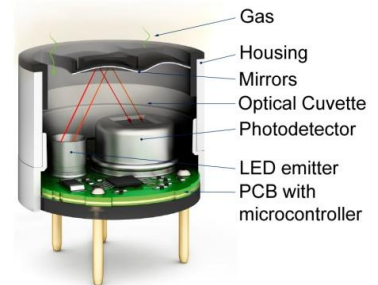
The CX0503-MIR has a simplified calibration procedure allowing for a quick, non-intrusive, adjustment free, field calibration of both Zero and Span set-points. It also offers 4-20 mA output, ModBus communications, and programmable relay outputs for Fault, Alarm 1, and Alarm 2.



MIR – LED Photometric Sensor

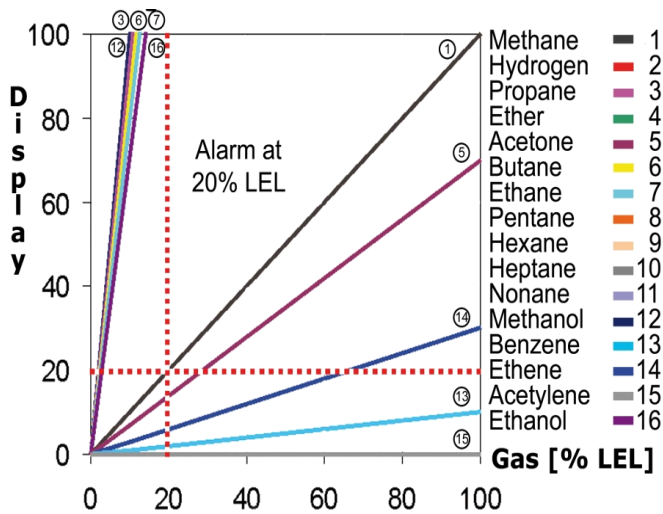
The MIR sensor has a built in microcontroller that manages the photo detector, mini mirrors, LED emitter, and optical cuvette. This photometric technology further increases the operational life, stability and accuracy of the sensor.

MIR – LED Photometric Sensor

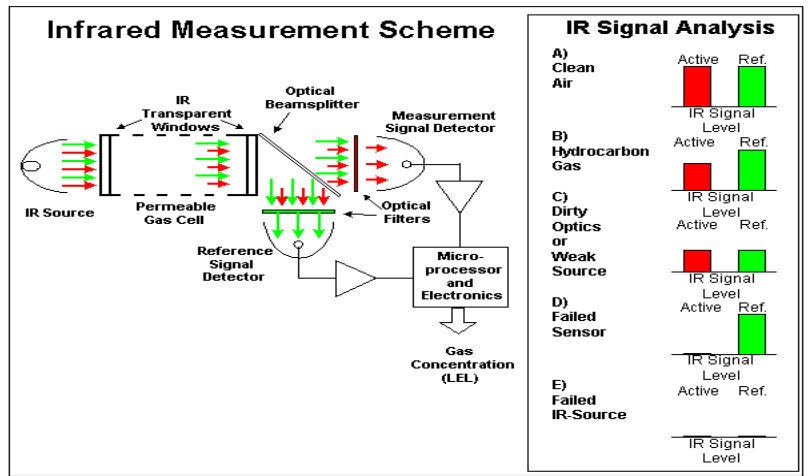


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Charleroi, PA 15022
1-800-487-8450
www.conspect-controls.com





MIR Combustible Gas Response Chart



This MIR technology is more responsive than typical NDIR and pyroelectric photo detectors. Additionally the IR Signal Analysis renders the sensor Fail Safe.

CX0503 - MIR Mechanical Specifications	
Enclosure	Explosion Proof (FM, CSA Listed)
Compliance	CL I Grps B, C, D, Div 1, 2 CL II Grps E, F, G, Div 1, 2 CL III NEMA 4X
Dimensions	Width 5.25 Inches Height 7.5 Inches Depth 5.25 Inches
Weight	Approximately 5 pounds

CX0503 - MIR Environmental Specifications	
Temp	-20 Degrees C to +50 Degrees C (-4 degrees F to +122 degrees F)
Temperature Compensation	Full Temperature Range
Humidity	Up to 98% RH Non-Condensing

CX0503 - MIR Electrical Specifications	
Power Input	24 VDC 100 mA minimum
Input	MIR Sensor
Current	100 mA full scale
Standard Output	4-20 mA ModBus
Cable Requirements	ModBus - 4-Conductor 18AWG 4-20 mA - 3-Conductor 18AWG
Conduit Entry	One (3/4 Inch Cable Grip)

CX0503 - MIR System Specifications	
Programming	Via (Non-Intrusive) Hand-Held Remote, Manual
Modes	3 (Calibration, Normal, Setup)
Display	Two Line, *Character Alphanumeric LCD Display
Status LED's	Green-Power/Normal Red - Alarm1, Alarm2 Green/Red - Sensor Fail
Total Alarms	3 (Alarm 1, Alarm 2, & Sensor Fail)
Alarm Set Point #1, #2	User Defined

Conspec Controls offers a complete line of toxic and combustible gas transmitters.



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