

SERIES 2019 ADDRESSABLE GAS DETECTOR MODULES WITH HMI OR MCP

THE INSTRUMENT

Multiple of these Addressable Gas Detection Modules (AGDM) can be connected to a single touch screen Human Machine Interface (HMI) OR Main Control Panel (MCP) to enable the operator to configure the system and access the readings and all the alarm and fault annunciations. The gas sensors are typically of electrochemical, Pellistor, NDIR as the case may be for the particular detection and sensor is located at the site to be monitored. The HMI/MCP electronics is located in a safe area/instrumentation room. They are meant for continuous operation of area monitoring with continuous read out, plus vital status indicators. HMI has many advanced features as below. The MCP when opted for is economical and cost effective solution for small number of AGDMs.

RS-485 Modbus RTU communications between AGDM and MCP. Power supply for AGDM is generated in MCP. Single 4 core cable carries power and communications signal and is looped to all AGDMs.

APPLICATIONS

Used for continuous multi-point point surveillance and monitoring either toxic flammable or other gases in work places or enclosed spaces.

FEATURES - AGDM

- Four digit LED display
- Visual indicators for Alarms, Communications, Faults, Run/ Program mode
- Each AGDM configurable for Address , Location, Instrument ID . RS485 Modbus RTU protocol.
- All Connections of Cables thru glands.
- Power to AGDM is 12 VDC from MCP/HMI
- Multiple types of Sensors, Principle of detection, Ranges are available. Non comprehensive list in table below. Consult us for your applications.
- Calibration by Calibration gas or Sensor O/P
- ENCLOSURE OPTIONS a) ABS plastic enclosure b) An aluminum junction box with metallic sensing head for sensor.
- Sensor on cable remotely. Max 50 meters

FEATURES – MAIN CONTROL PANEL (MCP) OPTION

- ABS IP55 enclosure. O/A size 160x160x130 mm
- Display : Backlight graphic LCD 128x64.
- Power supply : 220 VAC 50 Hz
- Common relay and indication per alarm, NO C NC 50 VA rating.
- Maximum 8 AGDMs can be connected to 1 MCP

Multi Point Surveillance Made Easy

HMI TOUCH SCREEN PANEL



MCP



AGDM IN ALUMINUM ENCLOSURE



AGDM IN ABS ENCLOSURE

TECHNOVATION® SR-2019

FEATURES – TOUCH SCREEN HUMAN MACHINE INTERFACE . (HMI) OPTION

- 10 Inch colored graphic touch screen display
- Enclosure: 19" 6U rack mounting OR Wall mounting MS enclosure.
- Gas reading, locations, alarm set point and status , range displayed.
- Real time trend analysis available
- Alarm thresholds and some parameters configurable from HMI.
- Maximum 32 AGDMs can be connected to one HMI.
- Power Supply : 220 VAC 50 Hz
- Multi-gases or single gases on screens

OPTIONAL EXTRAS WITH HMI

- Facility to store data on Pen Drive or SD card.
- Remote viewing of HMI on the internet.
- Data file transfer over internet
- Customizable screens for individual applications
- Stainless steel wall mounted enclosure options.
- Sensor fitted in aluminum JB with Ex-proof head.

GAS	Range / Principle	Resolution	GAS	Range / Principle	Resolution	GAS	Range / Principle	Resolution
O ₂	0 - 25 % (EC)	0.1%	SO ₂	0 - 20 ppm (EC)	0.1ppm	O ₃	0 - 1 ppm (EC)	0.01 ppm
CO	0 -1000ppm (EC)	1ppm	CL ₂	0 - 50 ppm (EC)	0.1ppm	Freons	0-200 ppm (NDIR)	1 ppm
H ₂ S	0 -100ppm (EC)	0.1ppm	NO	0 - 50 ppm (EC)	0.1ppm	CH ₄	0-5% or 0-100% (NDIR)	0.01 / 0.1 %
H ₂	0 - 1999 ppm or 2 % (EC)	1 ppm / 0.01	HCN	0 - 30 ppm	1ppm (EC)	CO ₂	0-5 or 10 or 50 or 100 % (NDIR)	0.01 / 0.1 %
NO ₂	0-100/1000 ppm	1ppm (EC)	ETO	0 -100 ppm	0.1ppm (EC)	FLAMMABLE GASES 0 - 100 %LEL OR V/V		
OTHER GASES , RANGES , RESOLUTIONS AND DETECTOR PRINCIPLES ON REQUEST. PLEASE CONTACT US								