

MULTI CHANNEL GAS DETECTION CONTROL SYSTEM



COMPATIBLE WITH EXPO 98 SERIES TRANSMITTERS

**O₂ | H₂ | CXHX | SO₂ | H₂S | CO | NO | NO₂ | NH₃ | Cl₂ | HCL
Br₂ | LPG | CNG | OZONE | SIH₄ | BCL₃ & MANY MORE**



MODEL 8420

The Model 8420 X is a microprocessor based fixed gas detection system designed to accept the input from remotely located Oxygen, Combustible or Toxic detector transmitters. The system is designed to provide continuous round the clock monitoring for a variety of common atmospheric hazards.

It utilizes a point to point wiring architecture whereby each detector head, alarm / shutdown device and remote system is individually wired to the control unit. This is best choice for small systems, typically less than 20 points, where the sensors are located in relative close proximity to the central control unit.

The system is designed for easy expansion by means of plug in sensor modules. Remote 98 series transmitters are available in non explosion proof or explosion proof versions. Both versions can be with or without digital readouts.

The systems includes built in digital readouts at the controller. Other standard features include two independently adjustable alarm set points per channel, bright LED alarm light indicators and relay contacts for fault, low and high alarm conditions; common and channel specific 4-20mA analog outputs for communicating sensor data to other systems.

Endee Model 8420 X rack / panel mount control enclosure along with Micro controller based digital control modules is designed to serve as a host control system for remote mount gas detection sensor transmitters. The single channel modular designed can be configured for any combination of gases. All control modules are plug in front panel accessible for easy maintenance and repair. A "Blank Plate" can be installed on any unused channel until that channel is needed at some future date.

The Model 8420 X includes an integral and modular power supply, three digit indicator serves as both a power on indicator and a direct reading display of the gas concentration. Alarm set points are software adjustable in 1 PPM / % increments across the range of detection. The reset switch resets all alarm relays.

SPECIAL FEATURES

- NEMA 1 Rack / Panel Mount
- Modular plug in design including modular power supply
- 2 to 8 channel / 19" Rack capacity
- Discrete analog 4-20mA outputs
- Discrete or zoned alarm relays (2 alarms plus fault)
- Status and parameters accessible via RS 485 (Optional)
- Compatible with PLC's, SCADA and DCS
- Compatible with all types of Transmitters
- Alarm Disable / Alarm Silence function

SPECIAL FEATURES



Input	:	4-20 mA current Loops
Displays	:	Red LED - 3 digit 7 segment for gas level.
Indications	:	Low alarm, High alarm, Fault
Alarm Reset	:	Is accomplished via an Integral or remote switch.
Electrical Classifications	:	NEMA 1 panel mount
Capacity	:	Up to 8 single channel control modules
Power Input	:	220 VAC Standard / 24 VDC Optional
Power Consumption	:	<5 watts per channel (includes gas sensor transmitter and control module)
Outputs	:	Linear analog 4-20 mA DC 24 volt DC Serial Rs-485/ 232 Discrete relays for fault, low and high alarm
Operating Temperature	:	-10°C to 55°C
Humidity Range	:	oto 95% RH, non-condensing
Dimension	:	3U 19" Rack
Warranty	:	One year.

Note : Specifications and Features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. Due to endee's commitment to research, design and product improvement, specifications are subject to change without notice.