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**TUVINDIA**



## RECEIVER CONTROLLER

### A MULTI CHANNEL GAS DETECTION CONTROL SYSTEM



## 8420

### UNIVERSAL RECEIVER CONTROLLER

ENDEE's Model 8420 is a microcontroller-based fixed gas detection system designed to provide continuous round-the-clock monitoring for a variety of common atmospheric hazards.

ENDEE's 8420 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 design can be configured for any combination of gases. All control modules are plugged in front panel, accessible for easy maintenance and repair.

8420 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 / % LEL increments across the range of detection. The RESET switch resets all alarm relays.

### SPECIAL FEATURES

- Modular plug-in design, including a modular power supply
- 2 to 8 channel / 19" Rack capacity
- Discrete analogue 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

*Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process. @ 2026*



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## SPECIFICATIONS

Type	: Rack / Panel mounting
Detectable gases / parameters	: All from transmitters
Electronics / processor	: Micro-controller
Power supply	: 230 V AC
Display	: Red LED and 3 digit - 7 segment for gas level
Alarm	: FAULT, LOW & HIGH visual alarms, adjustable
Output	: 4 - 20 mA per channel, relay
Technology	: Sensor Specific
Resolution	: 1 %V/V, 1 %LEL, 1 PPM
Accuracy	: $\pm 2$ % of FS (Approx.)
Response time	: Instantaneous
Operating temperature	: 0 - 55 °C
Input	: 4 - 20 mA from transmitter
Housing	: Aluminium
Optional accessories	: Cable, Hooter, Datalogger, RS 232/485, MS cabinet, Ex-proof enclosure ( for 4 channels only)
Electrical classification	: NEMA 1, panel mount
Power consumption	: Less than 5 watts per channel
Humidity Range	: 0 to 95 % RH, non-condensing
Dimensions	: 3U 19" rack

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