

9010/9020 Controller Units

Flexible options for reliable system control

9010/9020 Controller Units operate with a complete selection of gas sensors and transmitters including toxic, combustible and oxygen sensors. Units offer maximum flexibility to work in conjunction with a variety of remote sensors to provide reliable gas detection for many industries and applications. Advanced design includes SMD components throughout. 9010 LCD operates with one independent sensor (single-channel); 9020 LCD operates with two independent sensors (dual-channel) per control module, offering considerable cost savings while maintaining high reliability and performance. Modular design combined with dual-channel capability allows for many configurations to meet most applications.

Simplicity/Ease of Use

- Simple three-key operation for configuration, calibration and routine operation
- Selectable unit of measure (LEL, LELm, ppm, % Vol, g/m3, or blank)
- Flexible options for one to 20 channels
- Enhanced system reliability through individual terminal blocks for each module
- Adjustable calibration timer for calibration reminders
- 4-20 mA current loop accepted with no control unit calibration required
- Control modules offer independent LCD display specific to each channel

Durability

- Four enclosure options: NEMA 4X plastic, metal or stainless steel, and explosion-proof metal



Flexibility

- Each control module features:
 - Independent AC/DC power supply transformer for increased system reliability.
 - Two (SPDT) relays with change-over contacts for verification of warning and alarm conditions (common to both 9020 Module channels).
- Full internal diagnostics and inherent reliability minimize false alarms and unexpected down-time.
- Large, four-digit, seven-segment, backlit LCD and bright LED provide gas concentration, alarm status, measurement units, flags indicating status, and settings such as calibration interval, time-out function, alarm ON delay, and alarm inhibit.
- When operating in connection with toxic sensors, the 9010/20 LCD can be set to alarm when relevant STEL and TWA values are exceeded.

9010/9020 Controller Units Specifications	
POWER SUPPLY	115/230 V± 15% 50/60 Hz, 24 VDC + 15%-20%
INPUT SIGNALS	10-200 mV; 4-20 mA
OUTPUT SIGNALS ANALOG (NORMAL) ANALOG (FAULT)	0-20/4-20 mA (selectable) isolated 0/2/4/20 mA/frozen (selectable)
ALARM LEVELS	3 (Caution - Warning - Alarm)
ALARM RATINGS VIA RELAY CONTACTS (SPDT)	5 A @ 24 VDC/250 VAC (resistive load)
SPAN AND ZERO DRIFT	<±0.5% full scale
REPEATABILITY	±1% full scale
OPERATING TEMPERATURE	14°F to 104°F (-10°C to 40°C)
STORAGE TEMPERATURE	-4°F to 167°F (-20°C to 75°C)
HUMIDITY	90% R.H. non-condensing
LCD DISPLAY	Backlit liquid crystal display; 4-digit, 7 segments
PROTECTIONS ACCIDENTAL TAMPERING SOFTWARE SELF-DIAGNOSIS	AC/DC automatic switching in case of AC power failure through electronic switch By specific access codes and password By watch-dog and check-sum
APPROVALS	Complies with UL/CSA 61010-1 per MET