LEL MONITORING DATA SHEET

INNOTECH LEL-100

The LEL-100 integrates a high-accuracy process meter, a rugged weather-resistant enclosure, and a precision hydrocarbon gas sensor, providing a complete and configurable LEL monitoring solution ideal for industrial environments and continuous LEL detection.

FEATURES

NDIR hydrocarbon detection up to 100% LEL
Process meter with bar graph display and alarms
USB configuration for non-linear sensors and alert points
Robust IP68-rated enclosure with clear window
Flexible mounting with integrated rails and tag loops

PROCESS METER

Parameter	Specification
Display	4-digit LCD, 40-bar graph, starburst annunciator
Accuracy	±0.1% (voltage), ±0.01% (current)
Input	0–10V, 4–20mA, 10–50mA (user selectable)
Outputs	2 digital alarms, 1 analog 4–20mA
Backlight	Programmable color, dynamic based on setpoints
Power	12–24V AC/DC
Software	USB configurable, 20-point non-linear scaling
Dimensions	2.83 x 2.83 x 2.09 inches
Certifications	UL, cUL, CE

ENCLOSURE

Parameter	Specification
Material	Aluminum (AL) and Stainless Steel (SS)
Window Diameter	4.17 in Borosilicate glass
Conduit Connections	(2) Bottom ¾", (2) Top ¾"
Enclosure Rating	UL, CSA: 4X/IP68; ATEX & IECEx: IP68
Dimensions	6.42 x 7.97 x 8.45inches (W x H x D)
Mounting	Molded-in flanges and rails for PCB/display
Temperature Range	-67°F to 185°F (-55°C to 85°C)
Weight	13.2 lbs (AL), 22 lbs (SS)
Approvals	UL (US-C), CSA (C-US), ATEX, IECEx

LEL SENSOR

Parameter	Specification
Technology	NDIR with dual compensated pyroelectric detector
Methane Range	0–5% Methane (0–100% LEL)
Propane Range	0–2% volume
Resolution	0.01%
Accuracy	±2% full scale at 68°F, 1 bar
Response Time	T50 < 10s, T90 < 30s
Operating Temp	-4°F to +122°F
Storage Temp	-4°F to +122°F
Humidity Range	0–95% RH non-condensing
Voltage Supply	3.0 – 5.0 VDC
Warranty	5 years

PHYSICAL DIMENSIONS

Parameter	Specification
Enclosure Size	6.42 x 7.97 x 8.45 inches (W x H x D)
Assembled Depth	~8.45 in including cable glands
Total Weight	~14lbs (AL), 23 lb (SS)

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