

FLUID LEVEL MONITORING DATA SHEET

INNOTECH LVL-100

The LVL-100 integrates a precision process meter, durable weatherproof enclosure, and submersible level transmitter, delivering a robust and configurable monitoring solution for fluid level applications in tanks, silos, and vessels.

FEATURES

Submersible stainless steel hydrostatic probe for liquid levels
Programmable LCD meter with 4-digit display and bar graph
Dual outputs: 2 alarms and 4–20mA analog
Nonlinear scaling and configurable alert thresholds
USB software for custom scaling and annunciators
Weather-sealed enclosure with IP66 and NEMA 4X ratings

PROCESS METER

Parameter	Specification
Display	4-digit LCD, 40-segment 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
Dimensions	2.83 x 2.83 x 2.09 inches
Software	USB configurable, 20-point non-linear table
Certifications	UL, cUL, CE

ENCLOSURE

Parameter	Specification
Material	UV-stabilized Polycarbonate (PC), Aluminum (AL) and Stainless Steel (SS)
Conduit Connections	(1) Bottom/Top (None, M20, 1" or ¾"), (2) Side (M20 or ¾")
Enclosure Rating	PC: IP66, NEMA 4X, UL 94V-0 AL: UL, CSA: 4X/IP68; ATEX & IECEx: IP68 SS: UL, CSA: 4X/IP68; ATEX & IECEx: IP68
Window	3.35in clear polycarbonate (Borosilicate glass for AL and SS)
Dimensions	5.25 x 5.65 x 4.18 inches (W x H x D)
Mounting	Molded-in flanges & rails for PCB/display
Temperature Range	PC: -40°F to 167°F (-40°C to 75°C) AL: -67°F to 185°F (-55°C to 85°C) SS: -67°F to 185°F (-55°C to 85°C)
Weight	1.4 lbs (PC), 4.8 lbs (AL), 9 lbs (SS)
Approvals	UL (US-C), CSA (C-US), ATEX, IECEx

LEVEL SENSOR

Parameter	Specification
Type	Submersible magnetic hydrostatic probe
Range	Configurable from 0–6.5 to 650 ftH ₂ O (Refer to the Level Transmitter Data Sheet)
Output	4–20mA DC (2-wire)
Accuracy	±1.0% FS or better (Refer to the Level Transmitter Data Sheet)
Construction	SS316L diaphragm, port, and housing
Cable	PE, PUR, or PVC (custom lengths available)
Electrical Connection	NPT ¼" Male side-mount
Operating Temp	-22°F to 176°F (-30°C to 80°C, model dependent)
Protection	IP68
Certifications	RoHS, CE, ATEX, UL (region specific)

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