

Industrial Automation Digital Panel Meter Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Industrial Automation Digital Panel Meter Market was valued at USD 1.26 billion in 2024 and is estimated to grow at a CAGR of 7.1% to reach USD 2.48 billion by 2034.

The growth is driven by the rapid adoption of Industrial Internet of Things (IIoT) solutions, along with widespread integration of native Ethernet and Modbus connectivity in panel meters. Manufacturers are increasingly seeking multifunctional, consolidated meters to simplify control panels and reduce complexity at plant sites. Industrial automation digital panel meters are precision devices that digitally display critical process measurements, including voltage, current, temperature, pressure, and flow rate, through inputs from sensors, transducers, or transmitters. High-speed signal processing microcontrollers, combined with the need for real-time monitoring, are boosting penetration in automated control systems. Advanced measurement functions integrated with automation controllers enable faster and more accurate feedback. Increasing use in motor control centers and automated manufacturing processes, along with intelligent meters capable of monitoring multiple parameters and optimizing power and load distribution, is further stimulating demand.

The power segment is expected to grow at a CAGR of 7% through 2034. Programs focused on energy optimization, automated load shedding, tariff-aware submetering, and power-factor correction are driving demand, while interval kWh logging and carbon-accounting initiatives are fostering sustainability-driven adoption.

The LCD display segment is anticipated to reach USD 500 million by 2034. Rising demand for graphical LCD human-machine interfaces for complex process visualization

is propelling adoption. Preferences for multi-line and alphanumeric LCDs, combined with batch and recipe-display functions, enhance operator clarity and traceability. Graphical icons with localized help text support faster fault diagnosis and training efficiency. Low-power reflective LCD designs paired with battery-backed or UPS-protected nodes are enabling energy-efficient automation solutions.

U.S. Industrial Automation Digital Panel Meter Market generated USD 153.6 million in 2024. Expansion of smart manufacturing initiatives, rising factory automation investments, and energy-efficiency programs are driving adoption. Retrofit-ready designs and brownfield modernization projects are encouraging the replacement of older analog panels with advanced digital meters, while plant-level demand-response capabilities are strengthening power-meter rollouts.

Key companies in the Global Industrial Automation Digital Panel Meter Market include Secure Meters, Jewell Instruments, TE Connectivity, Lauritz Knudsen Electrical & Automation, LUMEL, Lascar Electronics, Phoenix Contact, Schneider Electric, Murata Manufacturing, Omega Engineering, Selec Controls, Cebeo, Himel, Trumeter, Honeywell International, OMRON Corporation, Autonics Corporation, BEEMET, and Powertrac Meters. Market players are leveraging technological innovation, product diversification, and strategic collaborations to enhance their market footprint. Companies are developing multifunctional meters with advanced connectivity features to cater to automation and IIoT needs. Investment in research and development is optimizing microcontroller processing speeds, signal accuracy, and energy efficiency. Firms are forming partnerships with system integrators and industrial automation providers to expand their distribution networks and enter new regions.

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