DIGITAL PANEL METER
for Modbus Level Sensors

Access Level Data Anywhere in the Plant

Stop walking back to the control room or office to monitor levels in bins, tanks, or silos. The DPM-100 digital panel meter is a versatile, easy-to-use display for any Modbus-enabled level sensor. This compact device installs easily indoors or outdoors for walk up or drive up use. It features a large, bright LED display that is easily visible regardless of bright sunlight, smoke, fog, dust, or distance.

Modbus Master, Snooper, or Slave Modes

The DPM-100 can be programmed as a Modbus RTU master, slave, or snooper. Each device can scan up to 16 process variables, making it ideal for multiple tank level monitoring and control. A convenient keypad allows users to set and acknowledge alarms and manage output relays.

Prevent Material Shortages

The meter displays level data for silos containing solids, powders, or liquids stored in bins, tanks, or silos with the push of a few buttons. It is especially helpful in process operations where overfills and material outages must be prevented. The DPM-100 saves plant personnel time, especially where multiple storage vessels must be continuously monitored.

Makes Data Communications Simpler

The Modbus protocol is used by intelligent sensors to deliver desired data to a PLC or HMI. It is also an ideal protocol for RTU applications where wireless communications are used. The DPM-100 automatically scans and updates at set intervals or will scan manually upon demand.

The DPM-100 is compatible with level sensors using the Modbus protocol in three modes of operation – master, slave, and snooper. Each unit accommodates up to 16 process variables in a variety of math functions. Advanced linearization capability compensates for vessel shape and submerged storage structures.

The DPM-100 is housed in a rugged NEMA 4X enclosure with a rugged front panel design that stands up to weather and high impact. It features customizable two-line, easy-to-read red LED display.

DPM-100 Specifications

Input/Output: Modbus RTU over RS-485

Display: Upper display: 0.60" (15 mm) high. Lower display: 0.46" (12 mm) high. Both are 6 digits, red LEDs

Display Scan Rate: Master/Snooper: 1/second to once every 99.9 seconds. Slave: Dependent on master device (e.g. PLC)

Front Panel: NEMA 4X, IP65; NEMA 4X enclosures available

Non-Volatile Memory: All programmed settings are stored in nonvolatile memory for a minimum of ten years if power is lost.

Power Options: 85-265 VAC 50/60 Hz, 90-265 VDC, 20 W max, or optional model with 12-24 VDC ±10%, 15 W max.

Fuse: Required external fuse: UL Recognized, 5 A max, slow blow; up to 6 meters may share one 5 A fuse.

Environmental: Operating temperature range: -40 to 65°C; Storage temperature range: -40 to 85°C

Relative Humidity: 0 to 90% non-condensing

Power: USB Port

DPM-100-0321-BLC