

DIGITAL PANEL METER

Dual-Line Large Display



Level Data on Two Lines

The DPM-500 is an easy-to-read dual-line display. Each line can be specifically programmed to display the data most helpful to operations. The first line is a large six-digit LED display generally set to represent height of the product. The second line displays the measured value in a different form such as distance to product (head-room), pounds, or gallons. This flexible dual-scale capability makes it highly desirable in level applications.

The DPM-500 accepts 4-20 mA inputs from a variety of sensors and can be used to power the loop if needed. The bright LEDs are viewable in fog, dust, smoke, and direct sunlight with optional superbright-readable displays. The DPM-500 is available with up to 4 relays onboard and/or a 4-20 mA output. The unit features UL/c-UL listing and CE marking and a non-volatile memory that stores programmed settings if power is lost.



Features and Exceptional Functionality

The dual-line 6-digit LED display has first-line 0.60" characters and second line 0.46" characters making it extremely easy to read. The configurable upper and lower displays can be set to show the parameters most beneficial to users out in the plant. The DPM-500 accepts 0-20 mA, 4-20 mA, 0-5 V, 1-5 V, and ± 10 V Inputs making it compatible with many types of sensors.



Simple Setup and Configuration

The DPM-500 is set up using an onboard USB and free programming software. Configuration is completed using four function keys to enter vessel parameters and select the format of the displayed parameters. It can be ordered with 2 or 4 relays and isolated 4-20 mA output options and RS-232 or RS-485 serial communication options. Modbus RTU communication protocol is standard on every DPM-500 model.

Fit for Many Process Industries

The DPM-500 is used in industry for level monitoring, controlling, and alarming. It is used at plants processing solids, powders, or liquids in bins, tanks, silos, sumps, wells, or other storage containment vessels. It is ideal for preventing overfills and material outages.

It can be programmed to display values for traditional round or square vessels and other horizontal and non-linear tanks. This makes the DPM-500 ideal for plants where multiple storage vessels of different shapes and sizes must be continuously monitored.

DPM-500 Specifications

Inputs: Field selectable: 0-20, 4-20 mA, ± 10 VDC (0-5, 1-5, 0-10 V)

Relays: 2 or 4 SPDT (Form C); rated 3 A @ 30 VDC and 125/250 VAC resistive load

Display: Upper display: 0.60" (15 mm) high. Lower display: 0.46" (12 mm) high. Both are 6 digits (-99999 to 999999), red LEDs.

Display Update Rate: 5/second (200 ms)

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

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

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

Transmitter Power Options: 24VDC @ 100 mA or 200 mA plus option for 40 mA

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-500-0321-BLC