

prosense® DPM22 Series - 22mm Panel Meters

Part No. [DPM22-A](#)Part No. [DPM22-B](#)

The [DPM22-A](#) and [DPM22-B](#) are 22mm panel-mount indicators designed to display and monitor process signals from RTDs, thermocouples, and DC voltage or current inputs. The [DPM22-A](#) is a three-color universal indicator with a 4-digit, 7-segment display that shows the actual measured value while its digits change color between red, green, and yellow based on user-configured thresholds. The [DPM22-B](#) is a bargraph version that uses a 10-segment LED display to show value level as a percentage of a configurable range, rather than a numeric readout, with the same three-color coding plus fast and slow flashing states for alarms. Both units run on 24 VDC power, draw a maximum of 1W, and share the same 48 × 26 × 72mm dimensions and an IP65

front-rated housing. Each device includes an NPN transistor output rated for 200 mA at 42 VDC that can be configured for control or alarm signaling, along with a micro-USB port for setup through akYtec Tool Pro configuration software. Full-scale accuracy is ±0.25% for RTD and DC voltage/current signals and ±0.5% for thermocouples on both models, with the [DPM22-B](#) additionally specifying a ±10% bargraph indicator error limit separate from its USB-read accuracy. Both meters mount into a standard 22.5mm panel cutout using a supplied gasket and hand-tightened nut. Together, the two models let users choose between a precise numeric readout or an at-a-glance bargraph display for the same range of process signal types.

Features:

- [DPM22-A](#) displays measured values on a 4-digit, 7-segment display with 14mm character height, in red, green, or yellow based on threshold settings
- [DPM22-B](#) shows signal level on a 10-segment bargraph with a user-configurable indication range, ideal for quick visual monitoring
- Both models accept a wide range of input signals, including RTD types (Cu, Pt, Ni variants), thermocouples (J, K, L, N, R, S, T, B, and DIN 43710 types), and DC voltage/current signals
- 24 (10–30) VDC power supply with maximum 1W consumption on both [DPM22-A](#) and [DPM22-B](#)
- Compact 48 x 26 x 72mm housing fits a standard 22.5mm panel cutout, with IP65 protection on the front and IP20 on the rear
- NPN transistor output (200 mA, 42 VDC max) configurable for control or alarm logic, including “alarm within limits” and “alarm outside limits” modes
- Micro-USB configuration interface works with akYtec Tool Pro software for full parameter access, including three (red, green, yellow) color zone thresholds and brightness settings
- Built-in error indication for sensor break, short circuit, cold junction sensor failure, and out-of-range values on both models

Application Examples:

- Temperature monitoring on equipment — Mount a [DPM22-A](#) on an oven, furnace, or heat-treating tank with a thermocouple or RTD probe. The [DPM22-A](#) shows the exact temperature and turns yellow as it approaches a limit, then red if it goes too high, so an operator can react before something overheats.
- Tank level or pressure at a glance — Feed a 4–20 mA signal from a pressure or level transmitter into the [DPM22-B](#). Instead of reading a number, an operator just glances at the bargraph, like a fuel gauge, to see if a tank is running low, normal, or about to overflow.
- Motor or pump load monitoring — Connect a current sensor to track how hard a motor is working. If the load creeps into a yellow or red zone, that's an indication that something's straining, like a clogged pump or a failing bearing, before it fails outright.
- Cold storage or refrigeration alarms — Use the output (the on/off switch function) tied to an alarm light or buzzer. If a walk-in cooler's temperature climbs above a safe threshold, the meter trips the alarm automatically, even if nobody's watching the display at that moment.
- Boiler or compressed air system safety checks — Many industrial safety codes require a visible indication of pressure or temperature at a control panel. These meters serve as that local readout, letting someone doing a walkthrough inspection confirm things are within range without needing test equipment.
- Water treatment or process control — Track pH, flow, or chemical dosing signals (typically via 0–10V or 4–20 mA sensors) and use the color zones to flag when a process drifts outside spec, prompting an adjustment before a batch is ruined.
- Simple pass/fail quality stations — On a test bench, wire in a load cell or sensor and set the color zones as pass/fail bands. Green means the part is in spec; red means it is not, giving line workers instant visual feedback without reading a manual or number chart.

DPM22 Series 22mm Panel Meters

Model	Description	Weight (lb)	Drawing Links	Price
DPM22-A	ProSense digital panel meter, panel mount, 22mm knockout, 14mm 4-digit tri-color (red, green, yellow) LED, Input: 1-channel, current/voltage/RTD/thermocouple, Output: 1-point, discrete, 10–30 VDC operating voltage.	0.15	PDF	\$92.00
DPM22-B	ProSense digital panel meter, panel mount, 22mm knockout, 14mm 10-segment bar graph tri-color (red, green, yellow) LED, Input: 1-channel, current/voltage/RTD/thermocouple, Output: 1-point, discrete, 10–30 VDC operating voltage.	0.14	PDF	\$104.00

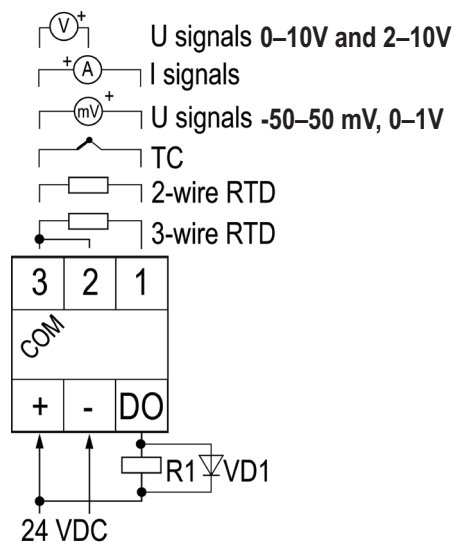
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Technical Specifications

Model	DPM22-A	DPM22-B
Display Type	4-digit, 7-segment numeric indicator	10-segment LED bargraph
Display Colors	Red, green, yellow	
Character Height	14mm	N/A (segment display)
Power Supply	24 (10–30) VDC	
Power Consumption, max.	1W	
Appliance Class	III	
Galvanic Isolation	500V	
Number of Inputs	1	
Input Resistance (voltage measuring), Min.	100 kΩ	
Input Voltage Drop (current measuring), Max.	1.6V	
Sampling Time, Max.	1s	
Accuracy – RTD, Voltage/Current Signals	±0.25%	
Accuracy – TC	±0.5%	
Bargraph Indicator Error (excl. hysteresis)	N/A	±10%
Output Type	NPN transistor, 200 mA, 42 VDC	
Configuration Interface	Micro-USB (akYtec Tool Pro)	
IP Code (front/rear)	IP65/IP20	
MTBF	100,000 hours	
Average Service Life	12 years	
Ambient Temperature	-40 to +60 °C [-40 to +140 °F]	
Relative Humidity	30–80% (non-condensing)	
Storage Temperature	-25 to +55 °C [-13 to +131 °F]	
Storage Relative Humidity	5–95% (non-condensing)	
Altitude	Up to 2000m above sea level	
EMC Compliance	IEC 61000-6-3:2016	
Agency Approval	CE	

For additional technical and mounting information, see the Quick Start Guide.

Wiring Connections



Quick Start Guides

Part No. [DPM22-A](#)

Part No. [DPM22-B](#)



Scan or click a QR code to open the Quick Start Guide

DPM22 Series 22mm Panel Meter Software

Model	Description	Price
AKYTEC-TOOL-PRO	Windows configuration software, free download only. For use with akYtec DPM22 series panel meters. Requires microB-USB cable.	Free Download