

DCM6-L

Low Voltage Monitoring

DATA COLLECTION MODULE

01 APPLICATIONS: The DCM6-L is designed for low-voltage monitoring and is ideal for applications that require:

- Continuous monitoring of 2-volt lead-acid or NiCad cells
- Stable operation in demanding telecom and utility environments
- Reliable detection of cell degradation in large, low-voltage battery strings

02 KEY FEATURES:

- Designed specifically for 2-volt cells
- Includes built-in protection against reverse polarity and surges
- Measures ohmic values (internal resistance), voltage, temperature, and strap resistance with precision
- Compact design for easy installation in space-restricted systems
- Provides real-time data to identify failing jars early
- Integrates seamlessly with other Cellwatch modules

03

WHAT SETS THE DCM6-L APART?

- Purpose-built for 2-volt cells
- Enhances long-term reliability of low-voltage battery systems
- Offers accurate monitoring for small-cell strings

04 TAILORED FOR LOW-VOLTAGE STRINGS: The DCM6-L delivers precise monitoring of 2-volt cells. From telecom to utilities, the DCM6-L ensures stable operation and early detection of failing jars, protecting critical low-voltage systems.



05 DCM6-L: Low voltage monitoring data collection module.

| Product Codes | |
|------------------|---|
| 761001 | DCM6 L 8 Pin |
| 761002 | DCM6 L with Temperature Probes |
| 761003 | DCM6 L 8 Pin with Din Rail |
| 761005 | DCM6-L w/Temp Probes and Din Rails |
| 761008 | DCM6 LV with Temp Probes and Extended Leads |
| 761001-CC | DCM6-L-w/ Charger Cable |
| 761003-CC | DCM6-L-CC Din Rail |

06 Technical Specifications

| | |
|-----------------------------------|------------------------|
| Environmental | |
| Operating Temperature | 0 - 60 °C |
| Relative Humidity | 5 - 85% non-condensing |
| Maximum Altitude | 3,000 m (10,000 ft) |
| Power Supply (Full Functionality) | 4 - 12 VDC |
| Power Supply (Voltage & Temp) | 3 - 12 VDC |

06

| Technical Specifications | | | |
|---|---|-------------------------------------|--|
| Protection Transient Suppression Short Circuit Protection Reverse Polarity Protection Insulation Resistance | 600W Internal 4-amp fuse Any combination 1000 MΩs >1Kv | | |
| Operating Current Quiescent Current Sleep Current after 25 hours Current During Ohmic Test | 12 mA <2 mA 1.5 A | | |
| Standard Measurement Characteristics Voltage Ohmic Value | Range 0 - 12 volts 0 - 5mΩ | Resolution 15 mV 6.3μΩ | Accuracy 0.1% +/- 15mV 2% +/- 15 μΩ |
| Enhanced Measurement Characteristics Requires Activation Voltage Ohmic Value Temperature -ve post (optional) | 0 - 12 volts 0 - 5mΩ 2 - 80 °C | 2mV 6.3μΩ 0.01 °C | 0.1% +/- -5mV 2% +/- 8 μΩ +/- 1 °C |
| Included Accessories Mounting Pads | 3M Dual Lock pads included for installation | | |
| Optional Accessories Base Plate Mount DIN Rail Mount | Optional base plate with mounting holes Optional base plate with DIN rail mount | | |
| Mechanical Fiber Optic Range Dimensions Mounting Pads Enclosure Material Wire Lead Length Optional base plate with mounting holes Optional base plate with DIN rail mount | 150mm (6 in) - 50m (150 ft) 4.2" × 3.1" × 0.9" (107 mm × 80 mm × 23 mm) 3M Dual Locks™ ABS 36-72 inches | | |