

DCM6-L-IECEX

IECEX Certified

DATA COLLECTION MODULE

01 PRODUCT OVERVIEW: DCM6-L-IECEX is an IECEX-compliant Data Collection Module designed for monitoring battery systems installed in hazardous (Zone 1) environments. The module is intended for use as part of the Cellwatch Battery Monitoring System and Cellwatch Frontier Battery Monitoring System, providing voltage, ohmic, and temperature measurements while meeting explosion protection requirements for hydrogen and other IIC gas groups.

02 APPLICATIONS: The DCM6-L-IECEX is intended for use in battery monitoring applications where equipment must be installed within hazardous locations, including:

- Battery systems located in Zone 1 hazardous environments
- Applications involving hydrogen or equivalent IIC gas group environments
- Facilities requiring IECEX / ATEX / UKEX compliance

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04 DCM6-L-IECEX: Hazardous zone monitoring data collection module.

Product Codes	
761015	DCM6-L-IECEX, 36 inch leads
761016	DCM6-L-IECEX, 36 inch leads with temperature probe
761019	DCM6-L-IECEX, 72 inch leads with temperature probe
761021	DCM6-L-IECEX, 72 inch leads
761026	DCM6-L-IECEX, 36 inch leads, DIN rail
761027	DCM6-L-IECEX, 36 inch leads with temperature probe, DIN rail
761028	DCM6-L-IECEX, 72 inch leads with temperature probe, DIN rail
761029	DCM6-L-IECEX, 72 inch leads, DIN rail

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Technical Specifications	
Compliance	IECEX Class 1 Zone 1 Zone 1 Explosion Proof: ATEX / UKEX / IECEX Ex mb IIC T4 Gb Intended operating environment: Zone 1, category 3G, gas group IIC (hydrogen), temperature class T4 (<135°C)
Environmental Operating Temperature Relative Humidity Maximum Altitude Pollution Degree	0 to 60°C 5–85% non-condensing 3,000 meters (10,000 ft) 2
Power Supply Full Functionality Limited Functionality (voltage & temperature only)	4–12 VDC 3–12 VDC
Protection Transient Suppression Short Circuit Protection Maximum Short Circuit Current Rating Reverse Polarity Protection Insulation Resistance	600 W 2 A power leads, 0.2 A sense leads 4,000 A Any combination 1000 MΩ > 1 kV
Operating Current Quiescent Current Sleep Current (after 25 hours) During Ohmic Testing	12 mA < 2 mA 1.1 A

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Technical Specifications			
Standard Measurement Characteristics Voltage Ohmic Value	Range 0 - 12 volts 0 - 6mΩ	Resolution 2mV 1μΩ	Accuracy 0.1% +/- 15mV 2% +/- 4μΩ
Enhanced Measurement Characteristics Voltage Ohmic Value Temperature (negative post)	0 - 12 volts 0 - 6mΩ 2 - 80 °C	2mV 1μΩ 0.01 °C	0.1% +/- -5mV 2% +/- 4μΩ +/- 1 °C
Fiber Optic Specifications Cable Sheathing Fiber Optic Range	Acrylic Fluorine-containing polymer Min: 150 mm (6 in) to Max: 30 m (100 ft)		
Mechanical Dimensions Wire Lead Length Mounting Pads Base Plate Mounting DIN Rail Mount Wire Rating	142 mm x 113 mm x 30 mm 36 inches or 72 inches N/A 6 available mounting holes (3 per side) Optional IEC EN 60332-1/2, 90°C, 600 V FT2		

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SYSTEM COMPATIBILITY:

- Cellwatch Battery Monitoring System
- Cellwatch Frontier Battery Monitoring System