



MAGNETEK

MAGNEPULSE™ DMC SERIES 2

DIGITAL MAGNET CONTROL



COLUMBUS MCKINNON CORPORATION

Having immediate access to critical equipment and system information can help you increase the safety, productivity, and uptime of your facility. The Magnetek® brand MagnePulse™ DMC Series 2 Digital Magnet Control provides you with easily accessible system monitoring and diagnostic information – anytime, anywhere. Combining advanced safety and performance features in one easy-to-use control, MagnePulse offers comprehensive system monitoring that can be used on processes and equipment for optimal efficiency. The latest in DC-to-DC control, MagnePulse DMC Series 2 is ideal for operation of industrial lifting magnets in heavy-duty applications.





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FEATURES & BENEFITS

ENHANCED DIAGNOSTICS

Fully compatible with IMPULSE®-Link 5 software and DataLogger Series 4 (DLS4), MagnePulse DMC Series 2 provides critical performance information, such as alarm, fault, and run details, and can assist with predictive maintenance and minimize downtime. Comprehensive software offers flexible programming with quick parameter changes as conditions require.

IMPROVED FACILITY AND PERSONNEL SAFETY

Designed with safety in mind, the MagnePulse DMC Series 2 monitors itself while in use and can be programmed to maintain safe thresholds of the magnet it is controlling, including twenty-five variables such as magnet current, voltage, resistance, temperature, and DC-bus voltage. Its power loss ride-through feature keeps the magnet energized during power interruptions, ensuring loads are not dropped.

MagnePulse also features built-in software that automatically cuts power to the drive during a fault event, preventing damage to the magnet and the drive itself.

INCREASED PRODUCTIVITY AND EFFICIENCY

Digital control of the magnet's demagnetizing current allows the magnet to clean the load faster and more consistently, helping to increase facility throughput. MagnePulse helps reduce lifting current while allowing the magnet to maintain a full load. This saves energy and increases the average lift capacity of each magnet for improved productivity. The OmniBeam™ feature allows you to enable any combination of up to 10 magnets to precisely match individual load requirements.

REDUCED MAINTENANCE AND DOWNTIME

Efficient energy use reduces magnet heating up to 50%, minimizing the need for magnet changeouts. Over-temperature protection utilizes the magnet's resistance to determine its temperature, preventing magnet damage and increasing life expectancy.

FLEXIBILITY FOR YOUR APPLICATION NEEDS

Control options include single-input, dual-input, stepped-input, analog, or serial current references, as well as a programmable input to maximize magnet and crane performance. MagnePulse DMC Series 2 can be retrofitted for your current system, designed as a pre-engineered panel, or be added to a custom panel built to your exact specifications.



SPECIFICATIONS

CONTINUOUS CURRENT RATING

- Current Range: 5-2000 ADC
- Pre-Engineered Panels: 67, 133, 200, and 400 ADC

INPUT VOLTAGE

- 200–320 VDC (low voltage), 360–600 VDC (high voltage) -20%/+10%
- 230/460/575 VAC (with rectifier)

INPUT

- 12 Discrete 24 VDC (standard)
- 9 Discrete 230 VDC or 120 VAC (optional)
- 2 Analog 0–10 VDC, -10 to 10 VDC, or 4–20 mA

OUTPUTS

- 4 Discrete 120 VAC/30 VDC, 5A (standard)
- 3 Discrete 230 VDC or 120 VAC (optional)
- 2 Analog 0–10 VDC, -10 to 10 VDC, or 4–20 mA

COMMUNICATION

- RS-485 Modbus RTU

TEMPERATURE

- -10°C to 65°C enclosure temperature (with air handling)

ALTITUDE

- 1000m maximum without derating

HUMIDITY

- <90% non-condensing



CRANE SOLUTIONS



MAGNETEK



UNIFIED

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