



DMC1

Direct Motor Controller



DMC1 Direct Motor Controller Overview

The DMC1 Direct Motor Controller, developed by Bradshaw Communication Systems and shown above, is a redundant motor control system that allows emergency directional control of three-phase motor driven earth station antennas. The earth station antennas are most commonly steerable parabolic reflectors with two axes of motorized control and an optional motorized feed polarization axis. In the event primary drive electronics suffer programming and/or catastrophic failure, the antenna may need to be manually positioned to prevent signal degradation or simply moved from one satellite position to another.

Upon detection of the failed primary antenna control system, the DMC1 can be activated by the Remote Control Unit allowing the azimuth and elevation drive motors to be controlled. This allows manual pointing of the antenna.

Used in conjunction with a spectrum analyzer, the satellite link can be manually kept on peak signal until the primary antenna control system failure has been resolved.

The DMC1 is compatible with most common antenna control systems. It is mounted directly to the antenna pedestal adjacent the primary motor controller (or a separate freestanding pedestal if desired).

The DMC1 is a must for any system where down time cannot be tolerated and redundancy is critical. Housed in a weatherproof enclosure, the DMC1 is designed to provide years of durability in its outdoor environment. The DMC1 uses high power contactors for reliable control and absolute motor path isolation allowing for ease in servicing and/or repairs to the primary motor control system.

BRADSHAW COMMUNICATION SYSTEMS

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DMC1 Direct Motor Controller Specifications

- **Antenna Control System Compatibility**
 - Most common systems - contact BCS

- **Cable Entry**

- Supplied with weatherproof cable glands.

- **Physical**

- Enclosure
Wall Mounted Weatherproof NEMA 4X Painted Steel Enclosure. Hinged Cover with Rotary Release Latches.
- Dimensions
19.5" high x 15.75" wide x 8.25" deep
(49.5cm high x 40.0cm wide x 21.0cm deep)

- **Environmental**

- -40 °F to 122 °F, 100% humidity
(-40 °C to +50 °C, 100% humidity)

- **Power Requirements**

- 3 Ø, 208/230 VAC, 50/60Hz, 25A Max

For an exact power analysis for your system requirements please contact Bradshaw Communication Systems directly.

- **Optional Accessories**

- Remote Control Unit Extension Cable

- **Approvals**

- All DMC1 components designed to meet or exceed UL 508 requirements.

Conclusion

With over 40 years of combined experience in the Satellite Communications Industry, Bradshaw Communication Systems (BCS) has the solution to get your job done right and on time. By providing extremely high quality products and services at economical prices, BCS has become a respected name in the industry and the right choice when it comes to satellite earth station antenna products and services. BCS has provided custom solutions for numerous customers and stands ready to provide components, systems, and services to best fit your specific requirements. Please contact BCS today regarding your requirements.

