

MDS Packaged Radio Series

MDS P60 Radio Enclosure for System Integration
MDS P70 Radio Enclosure for System Integration



Features

- Outdoor Protection – Offers protection from extreme weather conditions
- Compact design – Allows installation where available space is at a minimum
- Battery Protection – The standard power interface board includes an automatic low voltage disconnect that protects the battery from damage
- Designed to easily manage power and antenna cables
- Provides easy access to radio
- Radio mounted for quick glance verification of radio performance
- Rugged construction and designed for easy installation

Applications

- Gas/oil production and distribution
- Water, gas and electric utilities
- Lotteries
- Traffic control
- Industrial process control
- Railroad communication systems

Performance Parameters

- High Performance – Economical Design
- Full Protection from Weather and Environment
- NEMA 4X Corrosion Resistance

GE MDS...Global wireless solutions. Industrial Wireless Performance.

For more than two decades, GE MDS has been providing highly secure, industrial strength mission critical wireless communications solutions for a broad spectrum of public and private sector clients worldwide. With an installed base approaching 1,000,000 radios in 110 countries, GE MDS offers both licensed and license-free solutions with applications in SCADA, telemetry, public safety, telecommunications, and online transaction markets.

MDS P60 Product Overview

The MDS P60 compact enclosure is suited for installations where space is limited. It provides protection for one radio transceiver mounted on a metal plate with a power supply, battery, and interface/battery charger circuit board. Designed to work with most high performance MDS radio transceivers, the P60 provides protection from extreme weather conditions or highly corrosive environments.

There are power supply options for 12, 24, 48, Vdc or 120-220 Vac to meet your installation site requirements. All connections for power and interfacing are made inside the enclosure. All cabling passes through the conduit connectors, leaving no electrical contacts exposed to moisture outside the housing.

MDS P70 Product Overview

The MDS P70 Packaged Radio System is a weather proof NEMA 4X Corrosion Resistant Cabinet offering integration flexibility and protection for your MDS communication system. Its modular design allows room for two MDS radios, power supplies and customers' RTU or PLC equipment, greatly simplifying installation and therefore reducing deployment time and costs.

The P70 package includes a 24 Volt power supply for powering RTU equipment. Also includes an automatic low voltage disconnect to protect the battery, mounting plate, and RS-232 interface connection for I/O equipment. Internal chassis is 19" rack mountable (minus the lightning protectors). A 12 Volt battery back up, internal heater, and bulkhead mounted lightning protector are optional.

Configurations possible: Duplex or Spread Spectrum Radio Repeater, Tail-End Link, Duplex Remote, Redundant Remote or Master Station Configuration.

Why Consider an MDS Enclosure Series Solution?

Reduce overall deployment costs! Simplified and flexible installation due to modular design.

Protection under the most adverse conditions! NEMA 4X corrosion resistant cabinet enclosure protects your communication system from even the harshest weather/environment.

Simplified Maintenance! Easy access to component parts and a clear view of the radio LEDs for diagnostic purposes.



MDS Packaged Radio Series Specifications



MDS P60

General

- Enclosure Type: Weatherproof NEMA 4X with padlockable door fasteners
- Enclosure Dimensions: 30.1 W x 35 H x 16.5 D cm. (11.85 W x 13.75 H x 6.5 D in.)
- Power Supplies: For 12, 24, 48, 120 Vdc, 120-220 Vac
- Battery Backup: 4.6 Amp/hour with charger
- Interface Board Includes:
 - Battery charger
 - Orderwire interface jack for voice communication
 - Diagnostic interface jack
 - Setup adjustments and indicators
 - Terminal boards for power and data connections
 - Fusing for primary, battery and accessory power
- Available MDS Transceiver: XCVR Complement of 1, or no MDS transceiver mounted in the chassis. Order radio separately.

Ordering Information

- Available with MDS 2710 Transceiver (200 MHz Licensed)
- Available with MDS 4710 Transceiver (400 MHz Licensed)
- Available with MDS 9710 Transceiver (900 MHz Licensed)
- Available with MDS 9810 Transceiver (900 MHz Unlicensed)
- Available with MDS iNET 900™ Transceiver (900 MHz Unlicensed)
- Available with MDS TransNET 900™ Transceiver (900 MHz Unlicensed)

MDS P70

General

- Temperature Range: DC Power: -30° C to 60° C, AC Power: 0° C to 60° C
- AC Power: -40° C to 60° C (with internal heater)
- Humidity: 95% at 40° C
- Enclosure Type: NEMA 4X (Corrosion resistant) or 19 inch rack mount (no enclosure)
- Enclosure Dimensions: 45.72 W x 55.88 H x 25.39 D cm. (18 W x 22 H x 10 D in.)
- Rack Mount Plate Dimensions: 48.26 W x 22.86 H x 38.1 D cm. (19 W x 9 H (6RU) x 15 D in.)
- Available space for customer equipment: 36.5 W x 17.5 H x 22 D cm. (14.37 W x 6.90 H x 8.7 D in.)
- Weight: 14.86 kg. (31 lbs.)
- Customer I/O Space: 36.19 W x 20.32 H x 17.14 D cm. (14.25 W x 8 H x 6.75 D in.)
- Lighting Protectors:
 - Available with up to 2 protectors installed, bulkhead mounted, with external ground stud
 - Available for 19 inch rack mount version unmounted
- Primary Power Options:
 - DC: 12V, 24V, 48V and 120-370V
 - AC: 85-264V, 47-440 Hz with optional battery backup 4.5 AH or 12 AH
- Power for Customer I/O Equipment: 24 Vdc at 300 mA, 12 Vdc at 400 mA

Options/Accessories

(Options are field installable):

- Lightning Protection for antenna
- Battery Backup 4.5 or 12 AH (AC only)
- Heater for extended cold temperature operation to -40° C (AC only), thermostat controlled
- Fan for high temperature operation or 5 watt TX continuous keyed (recommended), thermostat controlled
- Available MDS Transceivers: XCVR Complement of 1, 2, or no MDS transceiver(s) mounted in the chassis. Order radios separately.

Ordering Information

- Available with MDS 2710 Transceiver(s) (200 MHz Licensed)
- Available with MDS 4710 Transceiver(s) (400 MHz Licensed)
- Available with MDS 9710 Transceiver(s) (900 MHz Licensed)
- Available with MDS 9810 Transceiver(s) (900 MHz Unlicensed)
- Available with MDS iNET 900™ Transceiver(s) (900 MHz Unlicensed)
- Available with MDS TransNET 900™ Transceiver(s) (900 MHz Unlicensed)



GE MDS
175 Science Parkway
Rochester, New York 14620, USA
Phone (585) 242-9600
Fax (585) 242-9620
www.gemds.com

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