



FlexNet M400D Base Station

High-Capacity Base Station

The Sensus FlexNet® M400D Base Station offers a strategic network communications option for smart grid deployments with high volume, diverse traffic requirements. By providing dual M400 transceivers, a single base station can simultaneously support communications for both AMI meter reading systems and high value applications such as DA, DR, HAN, and lighting control while transmitting and receiving in a 200 kHz band of spectrum. This bandwidth enables more dedicated channels and higher network traffic capacity, allowing the M400D to take full advantage of the Sensus FlexNet communication network and its primary-use licensed spectrum that delivers eight times the transmit power of competitive smart grid communication systems.

FEATURES

- GPS receiver for time synchronization
- Duplexer for single antenna
- IP-addressable power supply with hot-swap capability
- 8-hour battery backup
- Alarms and reporting capability
- Backhaul via Ethernet/IP
- Heated battery for cold weather environments
- Modular construction for easy serviceability
- Indoor/outdoor cabinet configurations
- Combined or sectored configurations

APPLICATIONS

- Two-way Advanced Meter Infrastructure (AMI)
- Distribution Automation (DA)
- Demand Response (DR)
- Home Area Networks (HAN)
- Sensus VantagePoint® Lighting Control
- Micro Grid
- Grid Edge

Scalability and Performance

With both single and dual transceiver options, the M400D provides unparalleled scaling opportunities to meet the performance demands of smart grid applications far into the future. When configured with two transceivers, up to thirty-two receivers and two transmitters may be supported, each transceiver dedicated to an individual smart grid application.

Features and Configurations

The M400D offers a drop in replacement for the S100 transceiver shelf (size 3U):

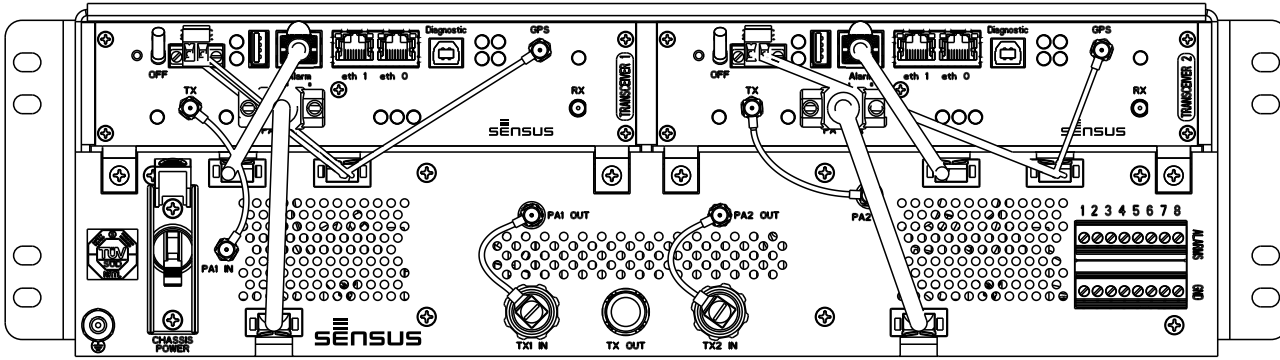
- Single and dual transceiver shelves available
- Indoor and outdoor cabinets available
- System alarm monitoring
- Next generation encryption
- DA, DR, HAN, and Lighting application support

Installation

As the smallest dual-transceiver base station offering from Sensus, the M400D provides flexible indoor, pole or pad-mounting options that enable strategic deployment, a discreet appearance, and low-cost installation. The modular transceiver shelf allows for rapid and flexible upgrade paths to fit a variety of dual-application needs.

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PROPERTIES

| | |
|---------------------|---|
| Receive bandwidth | 200 KHz per M400 transceiver |
| Transceivers | Single, dual |
| Spectrum | Licensed 900 MHz PCS/MAS |
| Duplexing | Single/Dual transmit Eight/Sixteen channels - Sixteen/Thirty-two receivers |
| Applications | Single/Dual |
| Expandability | Yes (shelf and frame level) |
| Compatibility | SNMP |
| Shelf height | 5.25" (13.3 cm) 3U |
| Shelf width x depth | 17" (43.2 cm) x 11" (27.9 cm) |
| Shelf capacity | Two M400 transceivers per 3U shelf |
| FlexNet | Requires RNI 3.x or newer |

ENCLOSURES - INDOOR - CABINET

| | |
|-----------------------|--|
| Cabinet height | Short: 48" (122 cm) or Tall: 84" (213 cm) |
| Cabinet width x depth | 24" (61 cm) x 28" (71 cm) |
| Temperature | -40° to +122° F (-40° to +50° C) (enclosure dependent) |
| Voltage | 120 or 240 VAC |
| Battery backup | 8 hours |
| NEMA rating | 12 (indoor cabinet) |

ENCLOSURES - OUTDOOR - POLE/PAD MOUNT

| | |
|-----------------------|----------------------------------|
| Cabinet height | 37" (94 cm) |
| Cabinet width x depth | 24" (61 cm) x 23" (58 cm) |
| Temperature | -40° to +131° F (-40° to +55° C) |
| Voltage | 120 VAC |
| Battery backup | 8 hours |
| NEMA rating | 4 |



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