



Point-to-Multipoint Network Base Station

The Sensus FlexNet™ Metro Base Station is designed to support a communications network for public service providers with endpoints deployed in metropolitan areas. Containing a single transceiver along with integral environmental controls, the compact enclosure blends into urban areas and enables service providers to send and receive status and usage information with fewer access points than other network architectures.

Benefits

- **Licensed radio spectrum** In the North America, FCC/IC protected primary-use spectrum avoids competition with other wireless services, interference from other radio devices, and the risk of being taken over by emergency service providers
- **Fewer access points** Our point-to-multipoint architecture directly connects base stations to endpoints over large geographic areas – greatly reducing the number of network backhaul connections as well as O&M costs
- **Resilient network design** Sensus Base Stations continue to provide real time data during outages and emergencies because they don't rely on power from the infrastructure they're monitoring – that enables better workforce management and faster service restoration
- **Small footprint** Flexible pole, wall or pad mounting options provide strategic deployment options with a discreet appearance
- **Integral environmental controls** Maintain optimal operating environment in cold or warm climates
- **Cybersecurity** Sensus has achieved GE/Wurdtech™ Achilles® communications certification for critical infrastructure security against cyber threats



Sensus Base Station

Metro

Standard Metro Base Station Properties

Model	S50	S100
Receive Bandwidth	50 KHz	100 KHz
Transceivers	One	One
Spectrum	Licensed 900 MHz PCS/MAS	Licensed 900 MHz PCS/MAS
Duplexing	Single Transmit Two Receive Channels: simultaneous/dedicated	Single Transmit Four Receive Channels: simultaneous/dedicated
Applications	Single	Single
Expandability	No	No
Compatibility	SNMP	SNMP

Enclosures	Outdoor - Pole/Wall/Pad Mount
Height	37" (94 cm)
Width x Depth	24" (61 cm) x 23" (58 cm)
Capacity	2 transceivers
Temperature	-40° to +131° F (-40° to +55° C)
Voltage	120 VAC
Battery Backup	8 hours
NEMA Rating	4
Air Conditioned	Yes

Applications

- Two-way Advanced Meter Infrastructure (AMI)
- Distribution Automation (DA)
- Demand Response (DR)
- Home Automation Networks (HAN)
- Sensus VantagePoint™ Lighting Control

Components

- 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
- On-board air conditioner
- Modular construction for easy serviceability



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