



Standard Point-to-Multipoint Network Base Stations

The Sensus FlexNet™ Base Station is the communications link between public service providers and endpoints deployed throughout their service territory. These powerful, efficient transceivers communicate usage and status information to and from providers on FCC-licensed frequencies – covering larger geographic areas with fewer access points than other AMI 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
- **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
- **Reduced O&M cost** Less infrastructure means less reliance on – and lease fees paid to – other companies for access to poles, towers or building rooftops for radio coverage or routine service and maintenance
- **Cybersecurity** Sensus has achieved GE/Wurldtech™ Achilles® communications certification for critical infrastructure security against cyber threats



Sensus Base Station

50 and 100 Series

Standard Base Station Properties

Model	S50	D50	S100	D100	T100
Receive Bandwidth	50 KHz	50 KHz/50 KHz	100 KHz	100 KHz/100 KHz	100 KHz/100 KHz/100 KHz
Transceivers	One	Two	One	Two	Three
Spectrum	Licensed 900 MHz PCS/MAS	Licensed 900 MHz PCS/MAS	Licensed 900 MHz PCS	Licensed 900 MHz PCS	Licensed 900 MHz PCS
Duplexing	Single Transmit	Dual Transmit	Single Transmit	Dual Transmit	Triple Transmit
Applications	Two Receive Channels: simultaneous/dedicated	Four Receive Channels: simultaneous/dedicated	Four Receive Channels: simultaneous/dedicated	Eight Receive Channels: simultaneous/dedicated	Twelve Receive Channels: simultaneous/dedicated
Expandability	Yes	Yes	Yes	Yes	Yes
Compatibility	SNMP	SNMP	SNMP	SNMP	SNMP

Enclosures	Indoor/Short Floor Mount	Indoor/Tall Floor Mount	Outdoor Pad Mount
Height	48" (122 cm)	84" (213 cm)	58" (147 cm)
Width x Depth	24" (61 cm) x 28" (71 cm)	24" (61 cm) x 28" (71 cm)	24" (61 cm) x 28" (71 cm)
Capacity	2 transceivers	2-4 transceivers	2-3 transceivers
Temperature	-4° to +122° F (-20° to +50° C)	-4° to +122° F (-20° to +50° C)	-40° to +115° F -40° to +46° C
Voltage	120 or 240 VAC	120 or 240 VAC	120 or 240 VAC
Battery Backup	8 hours	8 hours	8 hours
NEMA Rating	12	12	3R
Air Conditioned	No	No	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 or antenna combiner for multi-unit applications
- Low Noise Amplifier (LNA)
- IP-addressable power supply
- Battery charger
- 8-hour battery backup
- Alarms and reporting capability
- Backhaul via Ethernet/IP



Sensus D-100 and T-100 Base Stations shown in indoor short and tall rack mount configurations.

For more information, visit us at sensus.com

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