

Vehicle Gateway Base Station (VGB)

Model 4700



The Vehicle Gateway Base Station (VGB) is a portable radio-based device used for the acquisition of data from utility meters and other field-based diagnostic instruments. The VGB is compact and portable, allowing it to be used in any vehicle providing 12-volt DC power.

Ease of Operation

To operate the VGB, the user simply places the unit in a vehicle cabin, loads the desired meter reading route into a laptop computer and drives along the prescribed route. Meter data is collected as the vehicle travels within proximity of meters and other instruments on the route.

The VGB sends an alert signal to the meter's SmartPoint® module or ancillary device. Upon receipt of the alert, the SmartPoint module responds by transmitting its most recent reading. Once received, the SmartPoint module returns to a low-power listening mode. The operator sends out a signal and connects to all SmartPoint modules within range.

Portability

Through the use of advanced design, the radio electronics of the VGB are contained in a portable enclosure about the size of a small briefcase. With the addition of a laptop computer, connecting cables and antenna, the complete VGB package can be set up in any vehicle within minutes. The portable VGB instantly turns almost any vehicle—even a compact car—into a meter reading machine.

BENEFITS

- Sensus' user-focused equipment and software provides utilities with tremendous meter reading efficiency.
- Fewer limitations compared to other types of radio-based meter reading systems.
- Sensus' software platforms operate with all of our reading packages, allowing utilities to transition systems without downtime for operator training.

COMPONENTS



A Vehicle Transceiver Unit (VXU) is required for dual reading capability.

System Reliability

The FlexNet® communication network utilizes primary-use radio frequencies to communicate with SmartPoint modules. The combination of FCC-protected frequencies and sheer transmission power of the SmartPoint modules ensure reliable communication from meters and ancillary devices. In addition, SmartPoint M2 modules provide infrastructure detail by monitoring their operating conditions and reporting meter tamper, continuous flow, leak detection (when equipped), high or low consumption and low battery alarms.

User Friendly Software

The VGB utilizes AutoVu®, a software program designed for operating Sensus drive-by meter reading equipment. AutoVu features a convenient, user-friendly pull-down menu system for directing the meter reading process. Operators are also able to input information, such as route notes, manually via the PC's keyboards. The operator can easily edit route data configurations when necessary. The mapping feature allows the operator to add further efficiency by customizing the meter reader view to relevant meter reading process information. Back at the office, Sensus AutoRead® processes the information gathered by AutoVu and provide the utility's billing software with a simple plug-and-play interface, no matter what Sensus reading system is utilized.

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SPECIFICATIONS

Service	Radio-based mobile utility meter reading system
Dimensions	19.10" W x 11.24" D x 5.22" H
Weight	18 lbs.
Power	120W (< 10A) VGB only 140W (< 12A) with VXU connected
Frequency Range	900-960 MHz
Receiver Sensitivity	-118 dBm
Memory	Non-Volatile
Approvals	Licensed Operation: US: FCC CFR 47, Part 24D, Part 101C, Part 15 Canada: Industry Canada (IC) RSS-134, RSS-210
Software	AutoVu 3.0 or higher



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