FieldLogic® Handheld Device / Programmer

Description

Standard Model - FL6501-S (Standard), FL6501-GB (GPS + Barcode Scanner)

RadioRead™ Model - FL6502-GB (GPS + Barcode Scanner)

The Sensus FieldLogic® Hand-Held Device [HHD] is primarily designed to collect and store utility meter readings with built-in capability for expanded uses. The HHD interfaces to a personal computer [PC] through Wi-Fi® or an ethernet-enabled charging stand used for uploading pre-programmed meter reading route information. The computer must be equipped with Sensus FieldLogic System software.

The Model FL6501 accepts meter reading data entered manually on a built-in keypad or electronically through the TouchRead® System AutoGun, or wirelessly with the CommandLink or FMT. AutoGun options include cable-connected and RF (no cable required) styles.

The Model FL6502 includes all features of the Model FL6501, plus it can read Sensus RadioRead® Meter Transceiver Units [MXUs].

Features

PROGRAMMING

The Sensus 6500 Series HHD provides flexibility for utilities needing a reliable electronic hand-held meter reading and programming device. They are designed for collecting meter readings as well as programming RadioRead MXUs, FlexNet™ SmartPoint™ modules, and Sensus registers. In addition to accepting meter readings via its keypad, the HHD also accepts readings from TouchRead® System and RadioRead® System equipped meters where those systems are used. All meter reader activity is stored for later analysis, including multiple data entries, bad readings, and management system analysis.

ERGONOMIC DESIGN

The HHD's ergonomic-minded design offers a well-balanced, easy-to-handle unit. It includes a Transflective (TFT) LCD screen for ease of viewing during operation. Transflective displays appear brighter in direct sunlight, and use less power than other display technologies. Brightness can be adjusted to accommodate personal preference. The HHD can be manually carried during operation, or function in the optional HHD carrier harness.

BACKLIGHTING

The backlit keypad feature provides illumination to the LCD for convenience in data entry and ease of reading data in areas with insufficient lighting.

CONSTRUCTION

The HHD is housed in a weather-resistant, high impact, UV-stabilized plastic. Surface-mounted circuitry in the specially designed, watertight case allows the HHD to be used in rugged field conditions over a wide range of temperatures.

REPLACEABLE BATTERY

The rechargeable, self-contained Lithium Ion battery pack is field-replaceable to minimize downtime. The HHD is also equipped with a lithium battery backup to maintain date and time.

AUDIBLE VERIFICATION/WARNING

The audible tone confirms completed TouchRead, RadioRead, and FlexNet System readings, or alerts the user to faulty or out-of-limit readings. Tones can also be programmed with notes to alert the meter reader to hazardous situations or to respond to field survey questions.

INTEGRATED GPS AND CAMERA

The GB[1] version of the FL6500 Series offers an integrated GPS, barcode scanner and a five (5) mega-pixel camera for more convenient field data capture. The integrated GPS can acquire accurate position data in less time and in challenging locations, without the need for an add-on module. The 5 mega-pixel camera enables capture of high resolution, full-color images as well as the ability to obtain barcode data with the same device.

SERVICE AND WARRANTY

No service should be necessary if reasonable care is given during normal use. Sensus offers the Sensus Equipment Maintenance Program (SEMP) to extend the protection of HHDs and related equipment beyond the standard two (2) year warranty covering materials and workmanship. Warranty and service policy details are available from Sensus representatives and authorized AMR distributors.

1   The "S" version does not have the GPS, barcode scanner, or camera, making it the perfect device for Direct Read, TouchRead, or FlexNet Walk-By applications.

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FEATURES WITH THE SENSUS TOUCHREAD AUTOGUN

FLEXIBLE DATA ENTRY

When used with an AutoGun, the HHD automates the reading process. Reading data from Sensus and compatible absolute encoder equipped meters is obtained and stored in the HHD.

Manual entries can also be made using the keypad, which features elastomeric, tactile response keys. Pre programmed "high" and "low" range limits, calculated and passed from the utility billing software, can be sent to alert the user of possible reading errors. In addition, the Model 6502 provides expanded features for reading and programming Sensus RadioRead MXUs as well as FlexNet SmartPoints.

AUTOMATIC, ERROR-FREE DATA COLLECTION

When used with an AutoGun, the HHD collects and stores readings automatically from Sensus or compatible absolute encoders. Regardless of the route sequence programmed into memory, the HHD software identifies each meter encoder using the encoder's internal identification number. The software then searches the route program and automatically stores the meter reading in the correct customer account. When the utility's meter readers hear an audible alert tone from the HHD, it is alerting them to a special condition or hazard. They need only refer to instructions on the HHD screen on how to proceed. This process eliminates errors and increases meter reading speed.

CORDLESS AUTOGUN

Used in conjunction with the 6500 Series HHD, the cordless Sensus TouchRead AutoGun provides the ability to perform TouchRead readings without the need for cables from the AutoGun to the HHD. Information is stored in the AutoRead HHD through a bi-directional, low-power RF link.

SPECIFICATIONS

PRIMARY	Hand-held electronic meter reading collection and data storage device for manual, TouchRead System, RadioRead, and FlexNet meter reading.
OPTIONAL	Programmer for Sensus SmartPoints and Sensus registers.
PHYSICAL CHARACTERISTICS	Case material molded of high impact, UV-stabilized plastic. Grey color standard. Reading device/programmer connection built in. Carrying harness included.
DIMENSIONS	10.2" [259.08 mm] (H) x 5.4" [137.16 mm] (W) at display and 3.1" [78.74 mm] (W) at its narrowest point x 2.75" [69.85 mm] deep and 1.6" [40.64 mm] at its shallowest.
WEIGHT	32.03 oz (908 grams)
OPERATING SYSTEM	Microsoft® Windows® Embedded Handheld 6.5.3 Microprocessor: 1.0 GHz ARM Cortex, A8 1.MX53 Processor Operating Memory: 512 MB SDRAM Data Storage Memory: 8GB
KEYPAD	QWERTY keyboard. Large keys can be operated while wearing gloves. Adjustable backlit keys.
DISPLAY	Backlit and Transflective color LCD screen. Will display meter reading information, route information from hand-held, and any additional system information.
READING COMPATIBILITY	Able to read Sensus encoders, Sensus MultiRead Modules, Badger ADE® and Neptune Proread™ (ARB® VI).
CAMERA	5 MP resolution with autofocus, LED illuminator, and video capture
GPS	High-sensitivity GPS/GLONASS/SBAS receiver Accurate to five (5) meters or better
POWER SUPPLY	Intelligent Lithium Ion battery, 3.7VDC at 10600 mAh, 38.7 Whr 20 hour battery life, achieves full charge in 2-4 hours Field-replaceable battery
OPERATING TEMPERATURE	-22° F to 140° F (-30° to 60° C); Bluetooth® rated to -4° F (-20° C)
HOUSING	Tested to withstand being dropped on any surface from a 4 foot height without damage. Tested to MIL-STD 810G and IP68 for waterproof, dustproof, and shockproof (drop) standards.
INCLUDED ACCESSORIES	Hand Strap, Wall Charger, Micro USB SyncCable, Stylus with tether
OPTIONAL ACCESSORIES	Vehicle Charger, Replacement Battery, Single Docking Station, Quad Docking Station, Holster Carrying Case, Screen Protector, Input/Output Replacement Module
DOCKING STATION	Holds one HHD per stand. Microprocessor controlled. Load/Unload speed: 115k Baud Communications Interface: USB or Micro USB Bluetooth® Class I approved Plugs into 120 Volt, 60 Hz, AC wall outlet, power usage is 2 watts standby and 4 watts while charging Dimensions: 8.5" [215.9 mm] (H) x 6.0" [152.4] (W) x 5.5" [139.7] (D) Certifications: FCC Class B, EN60950

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