



Excellence in Compliance Testing

Certification Exhibit

FCC ID: VSF24243

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Manual

INTRODUCTION

The following information contains operating instructions for the Sensus FieldLogic® Hand-Held Device [HHD], which 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 include:

- Ergonomic design with a transfective LCD screen for ease of viewing
- A backlit keypad for additional illumination in areas with insufficient lighting
- Bluetooth and Wi-Fi enabled
- A rechargeable, self-contained Lithium Ion battery pack
- Optional integrated GPS, camera, and barcode scanner
- A weather-resistant, high impact, UV-stabilized plastic watertight case
- User friendly controls and operation



GETTING STARTED

If this is the first time using the FL650x, you will need to do the following.

1. Install the battery pack. The FL650X uses a rechargeable Li-Ion battery pack. The battery compartment is accessed from the back of the handheld as shown in the diagram on page 1.
 - Loosen the four (4) captive screws that hold the battery compartment door in place using a #1 Phillips-head screwdriver and remove the door. *Note: The FL650X is not sealed against water and dust when the battery door is not installed.*
 - Place the battery in the compartment, ensuring that the + and - symbols are aligned.
 - Replace the door and tighten the screws.
2. Install the optional SD/SIM cards if using. Ask your Sensus representative for detailed instructions if required.
3. The FL650X comes with a power charger. Plug the AC charger into a wall socket and the DC end into the FL650x power jack to start the battery charging. Charge the battery pack at room temperature (68°F or 20°C) for 4 to 5 hours. There is a red LED on the front of the handheld that blinks while the battery is charging. The red LED will turn solid once the battery is fully charged.
4. The FL650x includes a hand strap, stylus, and tether.
 - If the hand strap is not attached or you want it on the opposite side you will need to attach it via the points as shown in the diagram on page 1.
 - The stylus is attached to one end of the stylus tether. If you want the tether attached to the handheld, push the free tether loop through one of the attachment points on the back of the handheld as shown in the diagram on page 1. Insert the stylus through the loop and tighten, then place the stylus into the provided holder.

POWER UP

1. Press the power button. The FL650X will power on and begin the startup process. A splash screen will appear that indicates the progress of the startup.
2. A Microsoft® Windows Embedded Handheld screen will appear, then an Update Time screen appears. If needed, adjust the time zone, date and time and tap OK. You may need to restart the handheld.
3. To suspend the handheld at any point, press the power button.

HOME SCREEN/WINDOWS START MENU

Once you have powered on the FL650X, a Home screen will appear similar to the one seen here.



The Home screen is the main control center for the FL650X and will appear any time the FL650X is turned on. The content varies based on which model you have and can be customized. In addition, you can access the Home screen from any other screen by pressing and releasing the Home screen key on the keyboard.

The Windows Start menu gives you access to all of the applications on the FL650X.



You can access the Windows Start menu from any screen by tapping the Windows tile (soft key) on the display or pressing the orange key + Home keys on the keyboard.

Note: The orange key then home key sequence toggles back and forth between the Home screen and Windows Start menu. The home key takes you to the Home screen. The Windows soft key toggles between the Windows Start menu and the last screen shown.

NAVIGATION

The Windows® Embedded Handheld operating system enhances the ability of the handheld to recognize touch gestures, making it easy to use a finger to navigate. The keyboard or the stylus also can be used.

Navigation options vary depending on the screen you are viewing.

VERTICAL AND HORIZONTAL MOVEMENT

- Flick up, down, or sideways on the touchscreen.
- For more precise positioning, touch, hold, and move the screen up or down.
- Use the scroll bar if it is available.
- Use the navpad to move around on a screen.
- A horizontal scrolling menu is located on control panel screens near the top.

TOUCHSCREEN SELECTION

- Press or tap the function gadget or application icon you want to select, turn on, activate, or turn off.
- Press and hold a function gadget to bring up a control panel, menu, or list.

KEYBOARD SELECTION

- Use the up, down, right, and left arrow keys on the navpad to select (highlight) a gadget or icon on the screen. A ring appears around the selection.
- Perform the selected action by pressing the return key or the center action key. For dashboard gadgets like Wi-Fi, one press of the return key shows you which icon is selected, a second key press performs the action, and a third key press turns the action off. For application icons on the Start screen or in favorites, continue to use the arrow keys on the navpad and return or action keys until you get to the screen or menu you want.

FIELDLOGIC INSTALLATION

FieldLogic setup and configuration is handled through FieldLogic Hub which runs on a PC. For instructions on how to install FieldLogic Hub, please see the FieldLogic Hub Quick Guide or the FieldLogic Installation Guide.

FieldLogic Hub allows you to set up the device configurations that you will want to use within FieldLogic and also allows you to define which primary and secondary tasks for FieldLogic Tools will appear on the home screen of the FL650X.

Once you have the appearance and configurations defined in FieldLogic Hub there are two different methods you can use to install the configuration bundles on the FL650X.

1. Connect the FL650X directly to the PC running FieldLogic Hub using the ethernet connection. Once connected, you can register the FL650X in Hub and the default configuration will automatically be downloaded into the FL650X.
2. Use a USB flash drive to transfer the configuration bundles. Plug in a USB flash drive to the PC running FieldLogic Hub and then in Hub, go to Tools > Create installation media and follow the steps as directed. Once you are finished, you can remove the USB flash drive from the PC and plug it into your FL650X. The installation files will automatically upload once the USB flash drive is plugged in.

Once you have installed the software, the FL650X screen will appear with FieldLogic Tools as an option in the Start menu.

COMPLIANCE



Attention!

Any changes or modifications made to this device that are not expressly approved by Sensus may void the authority granted to the user to operate the equipment.



Attention!

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help



Radiation Hazard!

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



Attention!

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.



Attention!

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.