MFC5150X Handheld Communicator Getting Started Guide

Introduction
The MFC5150X Handheld Communicator is a full function HART® Communicator supporting Universal, Common Practice & Device Specific commands.

HART® Connection

Display and Touch Screen (No Stylus Required)

Keyboard, Full QWERTY

Keys, Direction Arrows

Keys, Information and Advance

Keys, Numeric

Key, Power On/Off

Key, Backlight

Charging Indicator
There is a multicolor light on the recharging cradle. This light indicates the current charging mode.
Off
– No battery pack inserted, or power disconnected
Solid Green
– Battery is charged
Flashing Amber
– Battery is charging
Solid Amber
– Battery temp out of charging range
Flashing Red
– Battery fault
Solid Red
– Charger fault

Battery Pack Installation & Removal

NOTICE *Do not over-tighten battery case screws. Maximum torque should not exceed 7 in-lb.*

NOTICE *Battery should be charged completely (4.5 hours) before using the first time.*

6-32 screws with 7/64" hexagonal socket

µSD memory card access

NOTICE *This card should only be replaced by Meriam part Z9P780, or its successor, and only under the direction of Meriam personnel. Use of a non-system memory card will void safety certifications.*

⚠ WARNING *Recharging Cradle is not rated for intrinsic safety and should only be used in a non-hazardous area. See the "Hazardous Area Use" section of the Control Drawing in the Instruction Manual.*

Battery Pack Installation & Removal
Pack is held into the communicator by two standard 6-32 screws with hex sockets that require a 7/64" hex wrench. ***Do not over-tighten battery case screws***
Installation: Set the communicator enclosure with the display downward on a flat stable surface. Rest the battery pack in the battery pack compartment of the enclosure leaving a ½" gap between the battery pack and the connector on the communicator enclosure. Slide the battery pack upward along the enclosure until the connectors mate completely and the screws are aligned with the threaded inserts on the communicator body. Thread the screws into the insert to complete the installation.
Removal: Reverse the order of the operations.

NOTICE *The battery pack contains an advanced battery fuel gauge that actively monitors the battery capacity and therefore does not require any "battery training" throughout the life of the battery pack.*

NOTICE *The Recharging Cradle is not intended to recharge a battery separately. To properly charge a battery pack it is required to be inserted into a communicator prior to being placed in the charger.*

Powering On the MFC5150X Handheld Communicator
Push the power button for 1 full second, then release. After approximately 2 seconds a splash screen will appear & MFC5150X Handheld Communicator application will load.

Connecting to a HART® Device
The main system menu is the initial menu at power turn on. It is also accessible from any HART® menu.

System Menu

Focus Pane (Red Box)

HART® Connections

Battery/ Time — There are three distinct areas on a System Menu (Top, Center, Bottom)

System Navigation
(Touch the icon or Press the number)
1. Handheld Setup Icon
2. HART® Setup Icon
3. System Info Icon

Repolling

HART® Polling Address Range Selection
Allows you to select a range of addresses to poll, or to select a tag or long tag to use in polling for a HART® enabled device.

HART® Connection descriptions

no device found — Indicates that no device is detected in the active polling range. The communicator is still actively polling the HART® address range you have selected in the HART® setup. If the poll address range is a single address, and a device is found at that address the communicator will immediately initiate connection, and additional polling is terminated. If the poll address range is not a single address and a device is found the communicator will continually search throughout the full range of addresses to find any available connections.

Devices Found: 2   0 — Indicates that multiple devices were found in the polling range and you must select which device to communicate with. Pressing the yellow icon will bring up a list box with all devices that were found in the polling address range. Once you choose a device and press "Accept", the box will collapse and the communicator will initiate connection.

Initiating Device — Indicates that the device selected is connecting and the Device Description (DD) is loading.

EJA: 5C-449   0 — Initialization is complete and a device is actively connected to the HART® network. The communicator does not continue to poll for other devices. If the green bar is selected the communicator will exit the system menus and go to the online HART® menu.

Online HART® Menu - (SDC-625)
HART® Device Menus are only accessible when a HART® communication enabled device is connected and communicating with the MFC5150X Handheld Communicator.

There are four distinct areas on a HART® menu (Top, Middle Left, Middle Right, Bottom)

NOTICE *User defined test fields (such as HART parameters like Tag and Long Tag, file names, and shortcut labels) do not support multiple language translations.*

Device Information
Manufacture
Model:
Tag Info

Online Hart® Device Menu

HART® Menu Path System Navigation

Battery Level, Time

Return to System Menu

Create Shortcut

Store/ Retrieve Configuration

Hot Key

Device Status

Commit Changes

User Created Shortcut

NOTICE *It is invalid to create a shortcut on the home menu (often labeled "Online"). If a primary menu has submenus (designated by 0 –MORE- in the tenth line) the shortcut created will be to the primary menu regardless of the submenu currently being displayed.*

Please, read the User's Manual for detailed description of all menus and features.