Introduction

YHC5150X FieldMate Handheld Communicator is a full function HART® Communicator supporting Universal, Common Practice & Device Specific commands.

HART® Connection

Display and Touch Screen
(No Stylus Required)

Battery Pack Installation & Removal

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

6-32 screws with 7/64" hexagonal socket

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 temp out of charging range

Flashing Red – Battery fault

Solid Red – Charger fault

NOTICE

This card should only be replaced by Yokogawa part 9P780, or its successor, and only under the direction of Yokogawa personnel. Use of a non-system memory card will void safety certifications.

Online HART® Menu - (SDC-625)

Battery Level, Time

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: 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.

- Initializing Device

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

Initialization is complete and a device is actively connected to the HART® network. The communicator does not continue to poll, or to select a tag or long tag to use in polling for a HART® enabled device.

Online HART® Device Menu - (SDC-625)

HART® Device Menus are only accessible when a HART® communication enabled device is connected and communicating with the YHC5150X FieldMate Handheld Communicator.

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

Designates a range of addresses, a primary menu has been created. Regardless of the submenu currently being displayed.
Any online modifications to parameters done prior to restoring a configuration that were not committed to the device are lost, if those parameters are in the stored configuration.

**CAUTION**

Serious injury or death may result from explosions. Before making electrical connections to an Intrinsically Safe model at the HART® jacks, verify the HART® instrument of interest is installed in accordance with intrinsically safe field wiring practices.

Note: Restrictions apply to the use of Intrinsically Safe units in hazardous areas. Refer to the Intrinsic Safety Control Drawing in the Instruction Manual IM 01R01A30-01EN. Yokogawa reserves the right to revise the Intrinsic Safety Control Drawing in the Instruction Manual IM 01R01A30-01EN without notice. Contact Yokogawa (phone 800.888.6400) for the current Intrinsic Safety Control Drawing.

For Intrinsically Safe model YHCS150X, consult the Intrinsic Safety Control Drawing in the Instruction Manual IM 01R01A30-01EN for restrictions, for special instructions in use, and for electrical connections allowed.

**WARNING**

For Intrinsically Safe model YHCS150X, verify the instruments in the loop are installed in accordance with intrinsically safe field wiring practices before making connection from the field device to the Unit’s loop communication jack. See the Hazardous Area Use Section of this manual and the Intrinsic Safety Control Drawing in the Instruction Manual IM 01R01A30-01EN.

Note the following WARNINGS and REQUIREMENTS for YHCS150X models:

- Substitution of components may impair Intrinsic Safety
- To prevent ignition of flammable or explosive atmospheres;
  - Disconnect power before servicing
  - Do not use battery charger in a hazardous atmosphere.
- DO NOT attempt to open the battery pack and replace the batteries.

**SAFETY NOTICES**

**WARNING**

Do not subject the batteries to intense heat. This could cause overheating, fire, rupture or explosion.

**CAUTION**

If an electric shock is felt when touching the charger or YHCS150X docked in the charger, unplug charger immediately from outlet. Remove the YHCS150X from the charger immediately after you determine it is safe.

**CAUTION**

If there is any deformation, cracks or other damage to the charger base, power cord, or power adapter, unplug the charger and discontinue use.

**CAUTION**

Do not disassemble or modify any component. This could cause failure or injury, invalidate certification and void the warranty.

**CAUTION**

Plug power adapter directly into an outlet. Do not use power adapter with an extension cord.