

# General Specifications

## Model YHC5150X FieldMate Handheld Communicator

# FieldMate™

GS 01R01A30-01EN-A

The YHC5150X FieldMate Handheld Communicator is the latest Intrinsically Safe HART® communicator from Yokogawa Corporation of America. All HART® field devices can be configured, polled, and trimmed utilizing a Windows-Embedded CE™ based system for faster processing and greater storage capacity. In addition, all options are standard, and no subscription is required. The YHC5150X is a full function, DD Direct, HART® Communicator supporting Universal, Common Practice and Device Specific commands for commissioning, configuration, and maintenance operations.

### FEATURED FUNCTIONS

- Reads manufacturers' DDs in their native format without the need for translations
- HART®-compliant modem communicates with any registered or unregistered HART® Device, including HART® 6 and 7
- Features an ergonomic, handheld design
- Enhanced 4.3" diagonal anti-glare touchscreen with color graphic display (no stylus required)
- Full QWERTY keyboard for commissioning new transmitters
- On Demand Help Menus and teachable device-specific short cuts
- More than twice the battery capacity of any handheld communicator
- Manage device information
- Integrated multi-language support

### STANDARD SPECIFICATIONS MODEL YHC5150X

#### Processor and Memory:

Microprocessor: 1 GHz  
Memory Internal Flash: 512 MB  
System Card: Up to 64 GB secure digital card (4 GB installed)  
RAM: 256 MB

#### Physical:

Weight: Approximately 2.1 lbs (.91 Kg) with battery  
Display: ¼ VGA (480 X 272 pixels) color, 4.3 (10.9 cm) transfective display with anti-glare  
Touch screen  
Size: 303×142×48 mm [11.9×5.6×1.9 inch]  
Keypad: 52 keys including QWERTY keys  
12 alphanumeric keys, tab key, backlight key, Power key, and 4 cursor-control (arrow) keys;  
Membrane design with tactile feedback

#### Power Supply / Charger:

Battery: Rechargeable Lithium-Ion power module  
Battery Operating Time: 10 Hours – continuous use  
20 hours – typical use, 100 hours – standby/hibernate  
Battery Charger: Input Voltage 100-240 VAC,  
50-60 Hz, Asian Adapters included US, European, and UK.

#### Connection:

Battery Cradle  
HART®: Two 4mm banana plugs  
(One common to HART®)  
USB: Supporting up to 115 kbps

#### Environmental:

Usage: +14°F (-10°C) to +122°F (+50°C)  
0% to 95% RH (non-condensing) (for +32°F ; 0° C) to +122°F (+50°C)  
Charge: +50 °F (+10 °C) to +104 °F (+40 °C) Storage: With Batteries  
-4°F (-20°C) to +131°F (+55°C) Without Batteries -4°F (-20°C) to  
+150°F (+60°C) Enclosure Rating: IP51  
Shock: Tested to survive a 1 meter drop onto concrete

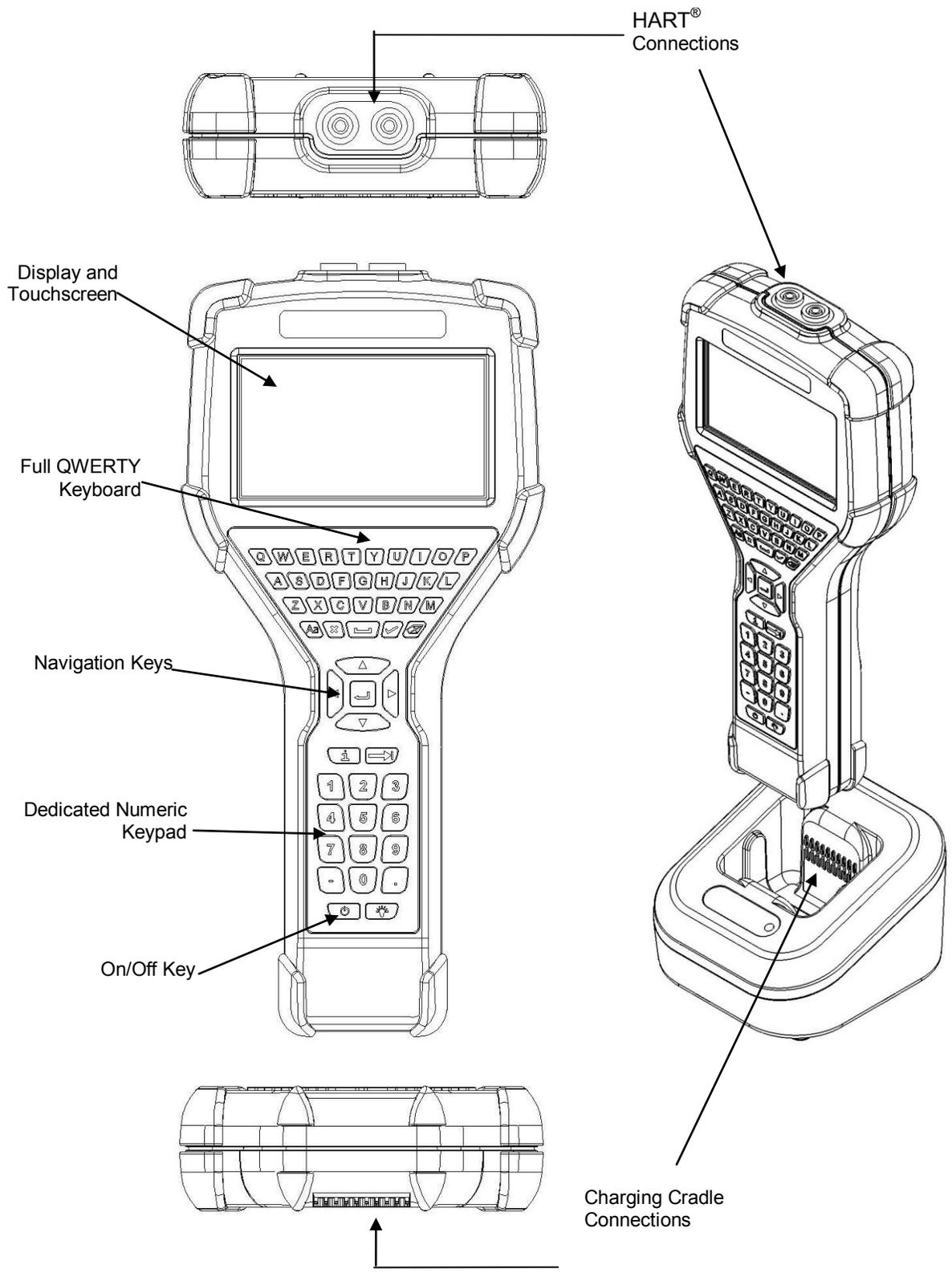
#### Certification:

Class I, Division I Group IIC (US/Canada); ATEX Zone 0 Group IIC (Europe); IECEx Zone 0 Group IIC (Asia, South America, Africa)  
ANSI/ISA (US)

- UL913 Ed7 CL I, DIV 1, GP A,B,C,D; T4
- UL60079-0 Ed5 CL I, ZONE 0, AEx ia IIC T4
- UL60079-11 Ed5 CL I, DIV 1, GP A,B,C,D; T4

CSA CSA-C22.2 CL I, ZONE 0, Ex ia IIC T4 (Canada)  
ATEX (Europe) EN60070-0:2012 II 1 G Ex ia IIC T4 Ga  
IECEx IEC60079-0:2011 Ed6 Ex ia IIC T4





## YHC5150X FieldMate Handheld Communicator

YHC5150X	FieldMate Handheld Communicator
	Standard Option
	Includes: Docking Station w/ Universal Power Adapter, HART <sup>®</sup> Test Lead Kit (Standard banana plugs, Mini-grabbers, 250 Ohm resistor), Rechargeable Battery, USB Cable, FieldMate Carrying Case, Hand Strap, and SD Card

Example Part Number: YHC5150X

## YHC5150X Accessories

1W-9A879	Docking Station w/ Universal Power Adapter (100 VAC to 240 VAC, 50-60 Hz)
1W-A900529-00014	HART <sup>®</sup> Test Lead Kit - Standard banana plugs, Mini-grabbers, 250 Ohm resistor
1W-A36821	Resistor - Std size 250 ohm shunt (req'd for HART <sup>®</sup> low resistance loops)
1W-9A820-1	Rechargeable Battery 9480mAh Li-Ion
1W-9P802	USB Cable - Communication from Docking Station to PC
1W-9P790	FieldMate Carrying Case - Custom soft case with integrated HART <sup>®</sup> lead compartment
1W-9P791	Hand Strap - Equipment protection equipment
1W-9P780	SD Card - Micro
1W-9P822	YHC5150X Series battery charger power cord (included w/ unit)
1W-9P823	7/64" Hex key wrench (included w/ unit). Fits the battery pack screws.

For more information, please visit us at [www.yokogawa.com/us](http://www.yokogawa.com/us)

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