



# Meriam Intrinsically Safe HART® Communicator - MFC5150x

## Features

- Free upgrades/downloads for life of the product — no subscriptions!
- Preloaded with over 1400 devices to work with every HART® transmitter in your plant
- On-Demand Help Menus and teachable device-specific shortcuts
- Gesturing similar to that of a smart phone
- Large 4.3" touchscreen (no stylus required)
- Preloaded with 12 languages
- Offline Configurations
- Instant "On"

## New Features Include

- Full suspend/resume functionality
- Improved user GUI interaction (data entry, screen response, gesturing, HART® beat)
- Repolling for HART® devices
- Hot Key Menu

## Standard Features Include

- Reads manufacturers' DDs in their native format from any HART® registered or unregistered device, eliminating the need for translations
- ATEX (Intrinsically Safe) and Non-ATEX models available
- XL Battery enabling 10 hrs continuous use minimum at 100% backlight, 30 days minimum while off and 1 year minimum in storage with battery removed
- Charging cradle with USB connection
- No subscriptions required

## Typical Applications

- Commission devices
- Reconfiguration for process changes
- Troubleshoot devices with HART®

## Ease of Use

- Quick start up and connect
- On demand help menus
- Manage device information through PC connection

## The MFC5150x is certified in the following Hazardous locations

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

The MFC5150x utilizes a Windows based system for faster processing and greater storage capacity. Plus, no subscriptions, and with all options standard at no extra cost, it's more affordable than ever. It's the Power of a PC in the palm of your hand!



**HART**  
COMMUNICATION PROTOCOL



# Meriam Intrinsically Safe HART® Communicator - MFC5150x



SPECIFICATIONS		OPTIONS	
<b>Display</b>		Enclosure Rating	
Type	Transmissive Display with anti-glare	Body - IP51	
Colour	24 bit TFT colour	Communication connections	
Resolution	480 x 272 pixels	Storage	
Backlight	White LED	USB (B type (receptacle))	
<b>Body</b>		<b>EMC</b>	
Size	11.9 x 5.6 x 1.9 inch [300 x 142 x 48 mm]	FCC (US)	EN61326-1
Weight	Approximately 2.1 lbs [0.95 kg] with battery	CE (Europe)	EN61326-2-3
<b>Keyboard</b>		C-tick (Australia)	
Material	Molded Keyboard design with tactile feedback	ANSI-ISA	
Key	52 keys including QWERTY keys	<b>Electrical Equipment Safety</b>	
<b>Power</b>		UL (US)	UL61010-1 Ed3
Battery	Rechargeable Lithium-Ion	ANSI (US)	UL60950-1   AC Adapter
<b>Battery Life</b>		CSA (Canada)	CSA-C22.2, NO. 61010-1-12
On at 100% backlight	10 hours minimum	CE (Europe)	EN60950-1   AC Adapter
Off	30 days minimum	<b>Environmental Protection</b>	
Storage, battery removed	1 year minimum	RoHS	Directive 2011/65/EU
<b>Battery Charger (AC adapter)</b>		WEEE	Directive 2012/19/EU
AC Adapter	Wall Adapter	REACH	Regulation (EC) No 1907/2006
Form	Four international inserts (US-U,UK-B,EU-E,AU-A)	<b>Transportation</b>	
Input Voltage	100 – 240 VAC 50/60 Hz	IATA   UN/DOT 38.3   Li-ion Battery	
Output Voltage	15 VDC	<b>Field Communication</b>	
Output Current	1600 mA	HART® Communication Host	
Overcharge protection	Yes	<b>Operating System</b>	
<b>Battery Charger (Cradle)</b>		Microsoft Windows™ CE	
LED indication	Tri-color LED	<b>Internal Memory</b>	
<b>Environmental Conditions</b>		ROM 512 MB	
<b>Operating</b>		RAM 256 MB	
Ambient Temp.	-10 °C to 50 °C (14 °F to 122 °F)	<b>Supported HART® Communication Revisions</b>	
Ambient Humidity	0% to 95% RH (non-condensing) for 0 °C to 50 °C (32 °F to 122 °F)	HART 5, 6, 7	
<b>Storage</b>		<b>Languages</b>	
Ambient Temp. with battery	-20 °C to 55 °C (-4 °F to 131 °F)	Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Romanian, Russian, Spanish	
Ambient Temp. without battery	-20 °C to 60 °C (-4 °F to 150 °F)	Applicable Equipment	
Ambient Humidity with battery	0% to 95% RH (non-condensing) for 0 °C to 50 °C (32 °F to 122 °F )	All transmitters supporting HART® Communication protocol	
Ambient Humidity without battery	0% to 95% RH (non-condensing) for 0 °C to 50 °C (32 °F to 122 °F )	<b>Shock condition</b>	
<b>Charging</b>		Tested to survive a 39.4 inch [1 m] drop onto concrete	
Ambient temp.	10 °C to 40 °C (50 °F to 104 °F)	<b>Included Accessories</b>	
Ambient humidity	0% to 95% RH (non-condensing)	Handy carrying case material [Ballistic Nylon; inside material black 420 Nylon], Communication leads [Molded banana plug test leads 39.4 inch [1 m] long], wrist strap, USB cable [78.7 inches [2 m] Type A to USB Type B], CD-ROM [Documentation, Drivers, PC Utility]	
Other	Charge only in Non-Hazardous areas		

MODEL	DESCRIPTION
MFC5150x	Meriam Intrinsically Safe, HART® Communicator

Temperature

Calibrator

Pressure

Humidity

Recorder &amp; Dataloggers

Air Flow

Level &amp; Flow

Portable Instruments

EX Proof / IS

Environment

Aerospace