

# MFC5150x HART® communicator

## DATA SHEET

## MFC5150x

The MFC5150 HART® Communicator directly reads device descriptions without any translations or subscriptions, enabling communication to take place with any registered or unregistered HART® device. This ensures your HART® transmitter will connect, regardless of brand or model.

The MFC5150 is built on the SDC-625 infrastructure and runs Windows CE. With a 1 GHz processor and an 4 GB Micro SD card, this HART® communicator is ideal for all of your data storage needs.

The 4.3 inch touchscreen provides excellent anti-glare viewing, allowing for comfortable mobile use in darkness or in bright sunlight.

All functions are easily navigated via the full QWERTY keyboard and intuitive icons similar to that of a smart phone.

The handheld HART device also features hyperlink menu paths, teachable device specific shortcuts, instant on, multiple languages, help context, video's and TAB access to panes just like on a computer.

Each unit includes: Docking Station with Universal Power Adapters, HART® Lead Kit, Rechargeable Battery Pack, USB Cable and SD Card, Soft Carrying Case, Hand Strap, Quick Start Guide.



## FEATURES

1. Free upgrades/downloads for life of the product, no subscriptions!
2. Preloaded with over 1400 devices to work with every HART® transmitter in your plant.
3. Large 4.3" touchscreen (no stylus required)
4. Instant "On"
5. Offline Configurations
6. Preloaded with 12 languages
7. Gesturing similar to that of a smart phone
8. On-Demand Help Menus and teachable device-specific short cuts.
9. Enhanced by the XL Battery

## SPECIFICATIONS

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!

Display:	Type: Transmissive Display with anti-glare Color: 24 bit TFT color Resolution: 480 x 272 pixels Backlight: White LED
Body:	Size: 11.9x5.6x1.9 inch [303x142x48 mm] Weight: Approximately 2.1 lbs [0.95kg] with battery
Keyboard:	Material: Molded Keyboard design with tactile feedback
Key:	52 keys including qwerty keys

**Power:** Rechargeable Battery: Lithium-Ion

**Battery life at 100% charge:** On at 100% backlight: 10 hours min.  
Off: 30 days min.  
Storage, battery removed: 1 year min.

**Battery charger (AC adapter):** AC adapter: wall adapter  
Form: Four international inserts (US-U,UK-B,EU-E,AU-A)  
Input voltage: 100 – 240 VAC 50/60 Hz  
Output voltage: 15 VDC  
Output current: 1600 mA  
Overcharge protection: Yes

**Battery charger (Cradle):** LED indication: Tri-color LED

**Enclosure Rating:** Body: IP51

**Communication connections:** Form: Two banana plugs spaced 3/4 inch

**Storage:** Media type: microSD card  
Capacity: 4GB min.

**USB:** Data rate: Supporting up to 921.6 kbps  
Form: USB B type (receptacle)

**Electrical equipment safety:** UL (US): UL61010-1 Ed3  
ANSI (US): UL60950-1, AC Adapter  
CSA (Canada): CSA-C22.2, NO. 61010-1-12  
CE (Europe): EN60950-1, AC Adapter

**Environmental protection:** RoHS: Directive 2011/65/EU  
WEEE: Directive 2012/19/EU  
REACH: Regulation (EC) No 1907/2006

**Transportation:** IATA: UN/DOT 38.3, Li-ion Battery

**Field Communication:** HART® Communication Host

**Operating System:** Microsoft Windows™ CE

**Internal Memory:** ROM: 512 MB  
RAM: 256 MB

**Supported HART® communication revisions:** HART 5, 6, 7

**Languages supported:** Chinese  
English  
French  
German  
Italian  
Japanese  
Korean  
Polish  
Portuguese  
Romanian  
Russian  
Spanish

**Applicable equipment:** All transmitters supporting HART® communication protocol

**Shock condition:** Tested to survive a 39.4 inch [1 m] drop onto concrete

**Included accessories:** Handy carrying case material: Ballistic Nylon, inside material black 420 Nylon  
Communication leads: Molded banana plug test leads 39.4 inch [1 m] long  
Strap: Wrist strap  
USB cable: 78.7 inches [2 m] type A to USB Type B  
CD-ROM: Documentation, Drivers and PC Utility

**Environmental conditions**

**Operating:** Ambient temp: 14 °F to 122 °F (-10 °C to 50 °C)  
Ambient humidity: 0% to 95% RH (non-condensing) for 32 °F to 122 °F (0 °C to 50 °C)

**Storage:** Ambient temp with battery: -4 °F to 131 °F (-20 °C to 55 °C)  
Ambient temp without battery: -4 °F to 150 °F (-20 °C to 60 °C)  
Ambient humidity with battery: 0% to 95% RH (non-condensing) for 32 °F to 122 °F (0 °C to 50 °C)  
Ambient humidity without battery: 0% to 95% RH (non-condensing) for 32 °F to 122 °F (0 °C to 50 °C)

**Charging:** Ambient temp : 50 °F to 104 °F (10 °C to 40 °C)  
Ambient humidity: 0% to 95% RH (non-condensing)  
Other: Charge only in Non-Hazardous areas

## Intrinsic Safety

### 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

(Canada): CSA-C22.2  
NO. 157-92(R2012)  
NO. 60079-0:11  
NO. 60079-11:11:  
CL I, ZONE 0, Ex ia IIC T4

### ATEX

(Europe): IEC60079-0:2011 Ed6  
IEC60079-11:2011 Ed6  
IEC60079-26:2006 Ed2:  
II 1 G Ex ia IIC T4 Ga

### IECEX

(International): IEC60079-0:2011 Ed6  
IEC60079-11:2011 Ed6  
IEC60079-26:2006 Ed2:  
Ex ia IIC T4 Ga

## EMC

FCC (US): EN61326-1

CE (Europe): EN61326-2-3



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