

Emerson Trex Touchscreen HART Communicator

Tech Specs

Processor, Memory, and Operating System	
Microprocessor	800 MHz ARM Cortex A8 / NXP
Memory Internal Flash	2 GB NAND and 32 GB extended flash
Operating System	Windows Embedded Compact 2013
RAM	512 MB DDR3 SDRAM
Physical	
Weight	Approximately 2.9 lbs (1330 grams)
Display	5.7 inch (14.5 cm) color VGA resistive touchscreen 640 x 480 pixel
Keypad	X button – similar to a Back key 4 arrow buttons to navigate menus Checkmark- similar to an Enter key
AC Adapter	
Battery	Rechargeable Lithium- Ion Power Module
Operating Time	8+ hours of typical use
Charge Time	3 to 4 hours
LEDs	6 LEDs. Five LEDs for indicating the progress of charging. One LED to indicate the AC adapter is charging the power module.
Battery Charger Options	Input voltage 90-264 VAC, 47-63 Hz Cables included with US, EU, UK, and AU plugs
Connections	
USB	Micro USB Connector. USB 2.0 Remove the USB cable from the Trex unit before connecting to a device.
Battery Charger	Barrel Round Plug Tip
Wireless	
Wireless Approvals	FCC, CE, RED and IC Approvals Certified for use in over 100 countries
Bluetooth	2.1 Range up to 10 m
Wi-Fi	802.11 b/g Range up to 33 m
NFC	Active NFC Range up to 20 cm
Communication Modules	
Device Communicator Communication Module	
HART terminal	Enables HART device communication Connectors: Two Banana Jack Plugs Optional Internal Resistor: 250 or 500 Ohm
Fieldbus (FF) terminal	Enables Foundation Fieldbus device communication Connectors: Two Banana Jack Plugs

Device Communicator Plus Communication Module	
HART terminal	<p>Enables HART device communication</p> <p>Connectors: Two Banana Jack Plugs</p> <p>Optional Internal Resistor: 250 or 500 Ohm</p>
HART + pwr terminal	<p>Enables HART communication with the Trex unit, and provides power to one HART device in a bench setup.</p> <p>Connectors: Two Banana Jack Plugs</p> <p>Includes HART power supply, resistors (167 Ohm), current control, and ammeter</p> <p>Current Range: 3 -22.5 mA</p>
mA terminal (external ammeter)	<p>Measures current on a 4-20 mA current loop.</p> <p>Connectors: Two Banana Jack Plugs</p> <p>Current Range: Up to 22.5 mA</p> <p>Resolution: 0.1 mA</p>
Fieldbus (FF) terminal	<p>Enables Foundation Fieldbus device communication</p> <p>Connectors: Two Banana Jack Plugs</p>
FF + FF pwr terminal	<p>Provides power to one Foundation Fieldbus device in a bench setup.</p> <p>Connector: One Banana Jack Plug (Power conditioner included)</p> <p>Current Range: 0- 38 mA</p>
Usage	<p>-20°C to +55°C (-4°F to 131°F).</p> <p>For IS approval: -20°C to +50°C (-4°F to 122°F)</p>
Charge	+10°C to +45°C (50°F to 113°F)
Storage with power module	-20°C to +50°C (-4°F to 122°F) (less than 1 month)
Storage without power module	-20°C to +60°C (-4 °F to 140°F)
Enclosure Rating	IP54
Shock	The unit shall survive a 1-meter, all sides and corners drop test onto concrete.
Upgrade Studio Requirements	
Installation	<p>Windows 7 Professional Service Pack (SP1) 1 (32 and 64-bit)</p> <p>Windows 10 Professional</p> <p>512 MB of free disk space</p> <p>A Windows user account with Administrator privileges</p>