



Bluetooth HART[®] Modem (HM-BT-BAT-ER) Datasheet



Benefits:

- Access hard to reach instrumentation with increased comfort and safety from up to 83 meters
- Easy instrument configuration using PCs/Tablets/Smartphones without needing to attach any modules or cables to your PCs/Tablets/Smartphones. Less clutter on desk or workbench
- Rechargeable Lithium Ion battery providing excellent standby characteristics
- Isolates and protects your computer equipment from field voltages
- HART Communication DTM (HART CommDTM) supplied for FDT applications
- HART Modem test program included for Windows and Windows CE
- No Bluetooth drivers required
- Free support provided

Features:

- Suitable for Windows, Pocket PC, Android and Linux. For Apple iOS. For Apple iOS you need our HM-BLE HART modem.
- Bluetooth v2.0
- Reliable wireless communication up to 83meters away with high security 128 bit encryption
- Operation time of about 14 hours, recharge time of about 1 hour (depending on the power output of the USB port used for charging). Excellent standby, Li-ion batteries typically have about 75% of charge remaining after 1 year of storage
- Meets HART Physical Layer Spec HCF_SPEC-54
- 1.2m cable length with integral heavy duty Minigrabber connectors
- Compact size 2.00" x 2.75" x 0.80" (50mm x 70mm x 20mm) and Rugged ABS plastic enclosure
- Integrated loop for hanging strap attachment (available separately)
- Custom cable lengths available
- Banana plug option available (HM-BT-BAT-ER)
- 1 Year warranty
- CE certified

Specifications:**Enclosure & Cables**

Material	High strength ABS Plastic
Dimensions	50mm x 70mm x 20mm
Total Unit Weight	170 g
HART Cable Length	1.2 m
HART Cable Connectors	Mini-Grabber

HART

Interface	Capacitive coupling
Output	600 mVpp
Leakage	< 10 uA
Connections	Across loop resistor or HART field device
Specifications	HART 4, HART 5, HART 6, HART 7, Physical Layer Spec HCF_SPEC-54

Computer/Tablet/Smart-Phone

Operating System	Windows, Pocket PC, Android and Linux. For Apple iOS devices you will need our HM-BLE modem instead.
Bluetooth	Bluetooth v2 compatible
Class	Class 1 (up to 83.8 meters), or Class 2 (up to 10 meters)*

* To be able to achieve the full Bluetooth range (83m) your PC/Laptop/Tablet/Smartphone must also be Class 1. If it is a Class 2 Bluetooth device (up to 10m) you could upgrade it to Class 1 by either replacing its internal Bluetooth module or using an external Class 1 Bluetooth USB dongle.

Battery

Type	Rechargeable Li-Ion
Life	19 hours continuous use (perfect conditions), 14 hours typical

Environmental

Operating Temperature	0 deg.C to 50 deg.C
Storage Temperature	-40 deg.C to 85 deg.C
Humidity	0% to 99% (non-condensing)

Compliances

CE Certification	EN 61326 (EMC), Directive 2011/65/EU (RoHS)
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