

HART Communicator Conversion for Android (COM-Droid) Datasheet



Product Description

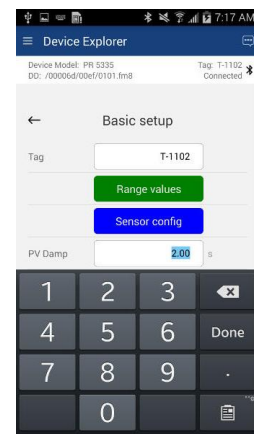
HART Communicator Conversion for Android Phones and Tablets (called COM-Droid) is everything you need to turn an Android Phone/Tablet (e.g. Samsung, Sony, HTC, LG, Google Nexus, Lenovo, Motorola, etc.) into a Handheld HART Communicator. It is the most cost-effective HART configuration solution available.

If you have an Android Phone/Tablet and want to configure HART Transmitters / HART Devices / HART Instruments, this Handheld HART Communicator conversion for Android will enable you to do it quickly and easily.



Benefits:

- Complete configuration of all HART, HART-IP and *WirelessHART* devices using your Android Phone/Tablet
- Supports HART DD files directly, no modified/special DD's required. You can add new HART devices just by adding the DD file without having to pay any update/maintenance charges
- Create and save HART device configuration templates for easy configuration of batches of HART devices (HART device cloning). Templates can also be shared with all our HART Communicators (Windows PC/Laptop/Tablet and Android Phone/Tablet)
- Document HART device configurations in PDF or TXT format. Provides reports/audit trails of HART device configurations
- Monitor any device parameter (e.g. PV, Multi-Variables, Device Status, etc)
- View and edit device variables. Device writes can be made in batches to speed up device configuration, hence saving time if several variables need to be changed



- Access HART-IP and *WirelessHART* devices via WiFi connection to your HART Gateway
- Supplied with a Bluetooth HART modems to support wire free use of the Handheld HART Communicator. The [Bluetooth HART Modem](#) isolates your Smartphone/Tablet from potentially damaging voltage levels when connecting to HART field devices and networks

Features:

- Supports all HART devices including HART 7, HART-IP and *WirelessHART*
- Device menu structure is easy to navigate
- Get to the information you want quickly
- Complies with new EDDL (Enhanced DDL) standard (IEC 61804-3)
- Comes with all the latest registered DD's from the HART Foundation
- Complete access to all features of the device DD including Methods
- Full documentation and free support provided
- 1 Year warranty
- Guaranteed to work with Android Phones/Tablets that have Bluetooth and Android version 4.3 or later



What you will get:

1. HART Communicator Conversion for Android Phones/Tablets (called "COM-Droid"). This product consists of an Android App for a Phone/Tablet (called [DevComDroid](#)), a Bluetooth HART Modem (called [HM-BT-BAT-ER](#)), and 5 HART Shunt / Loop resistors
2. The software is protected by a software license key. You will receive a license key entitling installation on a single Android device
3. A CD containing:
 - Handheld HART Communicator App for Android (DevComDroid)
 - User Manual
4. You will additionally be sent any HART DD library updates issued by the FieldComm Group (formerly the HART Communication Foundation) for a period of 12 months after your purchase. Typically, the FieldComm Group issues updates every 3 – 6 months. After 12 months we will stop automatically sending you updates, however, you can freely download any DD updates from the "supplier product catalogue" of the FieldComm Group's HART website, www.hartcomm.org

What you will need (i.e. not included):

1. An Android Phone/Tablet with Bluetooth
2. A HART device/transmitter to configure (obvious, but we thought we should mention it)
 - A way of powering the HART device you want to configure, typically 24Vdc
 - If configuring HART-IP or WirelessHART devices you will need a network connection (e.g. WiFi) to your HART Gateway. You will already have a HART Gateway if you have a working installation of HART-IP or WirelessHART devices

Specifications (Software DevComDroid):

System Requirements (minimums)

Operating System	Android 4.3 or later
Processor Speed	ARM or Atom
Memory RAM	1 GB
Memory ROM	2 GB
Screen	960x540 (qHD) or better
Communication Port	Bluetooth
HART Modem	Bluetooth HART Modem, e.g. HM-BT-BAT-ER

Device Descriptions (DD's)

DD Library	Includes HART Communication Foundation's latest release
Generic DD	Included
Number of devices	>1382 (call for latest information if details required)
DD Updates	Quarterly updates are sent to you automatically for 1 year. Thereafter updates are manually available free of charge from www.hartcomm.org

Functions

- Monitor PV
- Monitor Multi-variables
- Monitor Device Status
- View and Edit Variables
- Save complete device configuration to text file and PDF file
- Write saved configurations to devices
- Sample Execute Methods:
 - Trims
 - Calibrations
 - Loop Tests
 - Zero and Span

Specifications (Bluetooth HART Modem HM-BT-BAT-ER):**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 μ A
Connections	Across loop resistor or HART field device
Specifications	HART 4, HART 5, HART 6, HART 7, Physical Layer Spec HCF_SPEC-54

Bluetooth

Version	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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Contact Information:

HART Expert Ltd, 14 St. Patricks Court, Brockworth, Gloucestershire, GL3 4NT, UK

Phone: +44 (0)7966 233639

Email: info@hart-expert.co.uk

Web: www.hart-expert.co.uk

Supplied by HART Expert Ltd www.hart-expert.co.uk,

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