Handheld HART Communicator (COM-2) Datasheet

Product Description

Handheld HART Communicator Smartphone (COM-2) is everything you need to communicate with and configure all HART transmitters / HART devices / HART instruments quickly and easily..

The water and dust proof IP68 shock resistant Android smartphone (Blackview BV5800 Pro) provides the advantage of integrating HART configuration in a small, flexible and ruggedised smartphone, bringing new levels of productivity to HART configuration.

Benefits:

- Everything you need to communicate with and completely configure all HART devices including HART 7, HART-IP and WirelessHART
- 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
- The functionality of a modern Smartphone combined with HART configuration. Insert a SIM card and you have full use of the smartphone (calls and mobile data) including making Emergency calls when working on site.
- Create and save HART device configuration templates for easy configuration of batches of HART devices. 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)
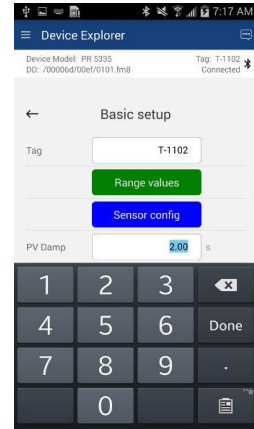- View and edit device variables. Device writes can be made in batches to

speed up device configuration, hence saving time if several variables need to be changed

- Supplied with a Bluetooth HART Modem to support wire free use of the HART Communicator which isolates the Smartphone HART Communicator from potentially damaging voltage levels when connecting to HART field devices and networks

Features:

- Convenience and flexibility of an IP68 ruggedised Handheld HART Communicator Smartphone
- 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
- Communication and Event Logs
- Clone devices
- 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

What you will get:

Handheld HART Communicator Smartphone (called "COM-2") comes ready to use out of the box. It is pre-configured for you and consists of the following:

- Blackview BV5800 Pro water and dust proof (to IP68) ruggedised smartphone
- HART Communicator software (DevComDroid) installed and licensed
- Bluetooth HART Modem (called HM-BT-BAT-ER)
- Pack of 5 HART Shunt / Loop resistors
- User Manual in pdf format
- Carry/storage case

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. 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 WiFi connection to your HART Gateway. You will already have a HART Gateway if you have a working installation of HART-IP or WirelessHART devices

For people working with HART transmitters

Specifications

Blackview BV5800 Pro

Note: Please see the Blackview website for full specifications

Water & dust proof to IP68

13 MP camera, rear camera, 8 MP front camera

5.5" HD+ display
Brilliant display quality and the strength of Corning® Gorilla® Glass 3

Expandable memory
2GB RAM and 16GB ROM, slot for an optional memory card up to 128 GB capacity.

All-day battery and wireless charging (optional wireless charger required)
A 5580 mAh battery lasts all day (40H talk time, 38day standby time)

Dual SIM support, 4G LTE speed

Software DevComDroid

HART Modem	Supplied with a Bluetooth HART Modem (HM-BT-BAT-ER). However, COM-2 can be used with multiple Bluetooth HART Modems from any supplier

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:

<div style="margin-left:3em">

Trims

Calibrations

Loop Tests

Zero and Span

</div>

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 uA
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)

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)

Contact Information:

HART Expert Ltd, 125 Greenways, Gloucester, Gloucestershire, GL4 3SA, 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,
Designed and Produced by ProComSol Ltd www.procomsol.com