

CONF2018

HART Configurator for Windows



- The best choice for hand held HART Communicators available today.
- Capable to communicate with all HART instruments in the field.
- HART modem options for USB port or wireless Bluetooth.
- Designed for operation in harsh environments, either industrial or militar applications.
- Proven resistance to chock, vibration, water exposure and electrical noise.
- Besides the HART communication it is a functional industrial computer.

Description

The Springfield Research CONF2018 is a Windows based HART communication software compatible with Windows XP all the way to the latest Windows 10.

Full performance is guaranteed for any DeskTop, LapTop or Tablet PC available on the market today. Proven reliability assures configuration and data analysis of any HART instrument while you are in the field or nearby the control room.

CONF2018 utilizes the HART command classes UNIVERSAL and COMMON PRACTICE for most communication tasks with any HART instrument. It also includes a library of SPECIFIC commands for complete access to over 360 field instruments. New instrument drivers can be developed from HART DDL/EDDL source files or from customer specifications.

CONF2018 is your ideal choice for commissioning, diagnosis, data monitoring and configuration at your process control plant. It will connect to a network via a HART modem, type RS-232, USB, or wireless Bluetooth.

Connectivity with HART modem type Ethernet, TCP-IP or WI-FI are available on special request.

CONF2018 is easy to install and will turn a Personal Computer into a powerful field communication tool.

Features

- CONF2018 will turn any Windows PC into a professional configuration tool for HART field instruments.
- Standard support for HART modem type RS232, USB, Bluetooth, (TCP/IP or WI-FI under special order).
- Access to HART command classes UNIVERSAL and COMMON PRACTICE used for most communication tasks.
- Access to HART command class SPECIFIC for over 360 HART instruments from several manufacturers.
- New instrument drivers can be developed directly from HART DDL/EDDL source files.
- Offline operating mode enables pre-configuration review before download into the instrument.
- Upload function can retrieve and store all instrument data for back-up security.
- Easy to upgrade or add new instrument driver.
- Field proven reliability with more than 25 years of product history.

The purpose of this document is assist with the setup, installation, operation and maintenance of the CONF2018 as well as providing technical specifications and basic data. Further information about this product can be found at www.springres.com

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1. General Overview

General Principles

The Springfield CONF2018 HART Configurator for Windows is a comprehensive instrument configuration tool able to turn your PC into a professional HART configurator.

Windows 10 compatibility will allow the use of any new computer available in the market, ranging from 8" LCD hand held tablets running Windows 10 (32 bit Personal Edition) all the way to powerful desktops running Windows 10.

This will bring your HART Configuration Tool into the conveniences of internet, e-mail, networking, spreadsheets, social media, and more. Just imagine, while monitoring a PV or variable of a HART device you can take a screen shot and send to a co-worker, in a matter of seconds. Or even, using your company social media you can share your screen with a co-worker around the world.

The CONF2018 software is capable to access an entire HART network regardless of the device model and manufacturer of each instrument. Physical HART compatibility is assured from the latest HART 7, down to 6, 5 and 4, with full multi-drop capability; earlier versions of HART are available on special order.

The CONF2018 accesses each instrument via communication methods defined within each device driver. These drivers are organized in Libraries. CONF2018 has three Libraries of communication methods, the Universal Library covering the HART Command Class UNIVERSAL, the Common Library covering the HART Command Class COMMOM PRACTICE, and the Specific Library covering the HART Command Class SPECIFIC.

With the Universal and Common Libraries, the CONF2018 will have access to all HART instruments, regardless of model and make, covering the Tag, Descriptor, Message, Date, Long Tag, Function, URL, URV, LRL, LRV, PV Unit, Polling Address, Zero Trim, Current Trim and Loop Test. This list of parameters and variables is sufficient for most field configuration and analysis tasks of an instrument.

Finally with the Specific Library, the CONF2018 will have access to all remaining variables and parameters of the instrument. For instance to access a sensor parameter, manufacturer configuration, special look up tables, or many others complex necessities.

The CONF2018, by default, is delivered with the Universal and Common Libraries. Therefore by default, has ability to communicate with any HART instrument.

The standard product will also include the Specific Commands for a variety of instruments manufactured by Springfield, Smar, Endress, Rosemount, Fosten, Fertron, K-TEC, Yokogawa, and many others; enabling full access to the instruments Specific commands with customized presentation of each parameter. There is also support for a large number of other instruments not delivered in the default package available only by consultation.

Once the CONF2018 scans the HART network, by means of the Universal and Common Libraries it will identify all live instruments, load all available instrument drivers that could be found in the Specific Library, and start a communication process considering its applicable methods.

For ordering an instrument driver not included on the standard package you should contact Springfield Research Corp. If not available it can be developed from the DDL/EDDL source code or from customer specifications. Costs will depend upon the complexity of the instrument driver or development time. More information about DDL/EDDL is available at Fieldcom.org or reading the international standard IEC 61804-2.

The CONF2018 is delivered via Springfield Product CD, pen drive or internet download. Copy protection is performed via software key. It will include a choice of one Springfield HART Modem option RS232, USB, or Bluetooth. The CONF2018 will also work with third party HART Modems. Support for WI-FI or TCP/IP are available under special order.

Hardware Overview

The CONF2018 does not require a special personal computer, any PC running Windows 10 down to Windows XP will be sufficient.

Because of long term maintenance costs and software support we recommend the use of a new computer with the latest release of Windows, currently Windows 10 (32 bit Home, or 64 bit PRO (Professional), or 64 bit PRO Workstation).

All modern computers will have an USB port available to connect your HART Modem. Many will also have Bluetooth interface in case your choice is for a Wireless Bluetooth HART modem.

The standard CONF2018 will also support the legacy HART Modem RS232. WI-FI and TCP/IP is available on special order.

Software Overview

CONF2018 software enables the communication and configuration of HART devices via the Springfield HIUSB HART Modem or any other compatible interface. Without a HART modem, the software will work in off-line mode allowing the user to set-up configurations for later usage.

Installation will require about 250 Mega bytes of disk space, plus about 50 Mega bytes of RAM at runtime.

2. Ordering Code

CONF-ROBUST

HART Configurator for Windows PC ruggedized platform Package include:



- 1 Tablet PC 8" color LCD display, with minimum 4GB RAM. Solid state DISK 58GG, CPU 1.44GHZ or better. Touch Screen, multi-media package, WI-FI, good battery life. Windows 10 (64bits), with convenience package. E-mail, internet, Skype, Photos, and many other amenities. Dimensional outline 240 x 155 x 30 mm. Resistance to impact up to 1 meter into wooded concrete floor. Water resistant, vibration resistant, extended temperature range. Excellent choice for outdoor and mobile installations.
- 1 HART Communicator for Windows model CONF2018 (pre-installed)
- 1 HART MODEM model HiUSB for USB connector or 1 HART MODEM model HiBLUE for Bluetooth wireless.
- 1 year free software maintenance and upgrade.

Product Overview: [click here.](#)



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