



Quick Install Guide

This Quick Install Guide is applicable for models: 640S, 760S, 780S, and 780S-UHP.

A copy of this Quick Install Guide, the 600/700 Series HART manual and the 640S and 780S product instruction manuals are also included on the digital communication information CD included in your shipment. This information is also available for <u>download</u>.

The 600/700 Series HART support only the universal command set. A specific device description (DD) is not available, use the generic (DD). The Primary, Secondary, Tertiary, and Quaternary Variables have been configured at the factory.

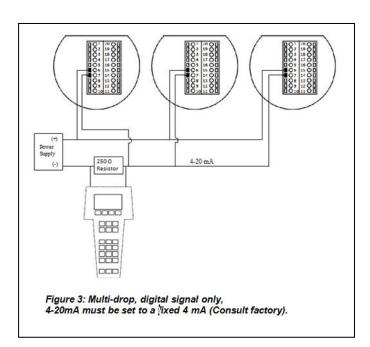
Connecting to a HART Network

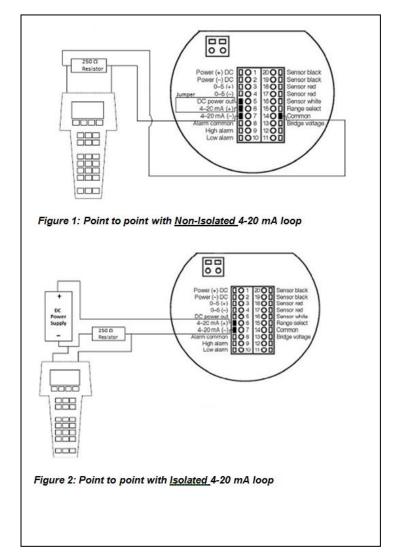
You will need the following to connect HART to your device:

- 1. HART equipped 640S, 760S, or 780S Series flow meter.
- A HART 375 or 475 Communicator or personal computer (PC) equipped with a HART modem.
- 3. A power supply for the flow meter rated at 18 to 30 VDC@625 mA (regulated).

Installation Steps

- Connect the flow meter to the HART communicator or PC to the 4-20 mA loop. See below.
- 2. Power up the flow meter. Terminal 1 and 2.
- 3. Start the Communicator or PC to setup and view the available variables.





Commands Implemented

Command Number and Function	Data in Command	Data in Reply & Size
1 Read PV	Read Variable Flow Value,	Byte 0 PV unit code
	and Flow Units	Byte 1-4 Primary variable
2 Read Current & Percentage	Read Primary Variable	Byte 0-3 current (mA)
of range		Byte 4-7 % of range
3 Read Current & four	Flow	Byte 0-3 Current
variables	Totalizer	Byte 4 PV unit code
	User Full Scale	Byte 5-8 PV
	K-Factor	Byte 9 SV unit Code
		Byte 10-13 SV
		Byte 14 TV unit Code
		Byte 15-18 TV
		Byte 19 FV unit Code
		Byte 20-23 FV
12 Read message	None	Byte 0-23 message
13 Read tag descriptor, date	None	Byte 0-5 Tag A
		Byte 18-20 date D
14 Read PV Sensor		Byte 4-7 Upper sensor limit
information		Byte 8-11 Lower sensor limit
	Flow Value	Byte 12-15 Minimum span
15 Read PV output		Byte 2 Range values unit code
information	Flow Value	Byte 3-6 Upper range value
		Byte 7-10 Lower range value
16 Read final Assembly number	None	Byte 0-2 final assembly number
38 Reset Configuration changed flag	None	None
42 Master Reset	None	None
48 Read additional transmitter	None	Byte 0 -1 = status
status		Byte 2 = com status
50 Read Dynamic Variable	Flow for PV	Byte 0 Device Variable Code for PV Byte
Assignments	Totalizer for SV	1 Device Variable Code for SV Byte 2
.	U/F for TV	Device Variable Code for TV Byte 3
	K-Factor for FV	Device Variable Code for FV
148 Read Device Variable Upper Range	User Full Scale for TV	Byte 1-4 Upper Range data