



Quick Install Guide

This Quick Install Guide is applicable for the QuadraTherm® 640i/780i.

A copy of this Quick Install Guide, the QuadraTherm® 640i/780i HART® manual, and the individual product instruction manual are included on the digital communication information CD included in your shipment. This information is also available for [download](#).

The HART Communication Protocol is an acronym for (**H**ighway **A**ddressable **R**emote **T**ransducer). The HART Protocol makes use of the Bell 202 Frequency Shift Keying (FSK) standard to superimpose digital communication signals at a low level on top of the 4-20mA current loop. Point-to-point (analog/digital) and multi-drop (digital only) modes are supported. The 640i/780i device description (DD) files can be downloaded [here](#). The primary, secondary, tertiary, and quaternary variables have been configured at the factory.

Connecting to the HART Network

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

1. HART equipped 640i/780i flow meter.
2. HART 375 or 475 communicator or personal computer (PC) equipped with a HART modem.
3. A power supply for the flow meter rated at 24 VDC +/- 10% (1.04A load maximum).

Installation Steps

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

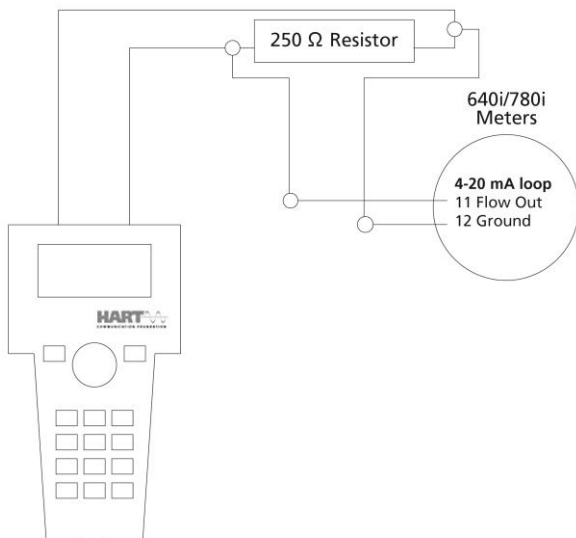


Figure 1: Typical point-to-point application with non-isolated 4-20 mA loop

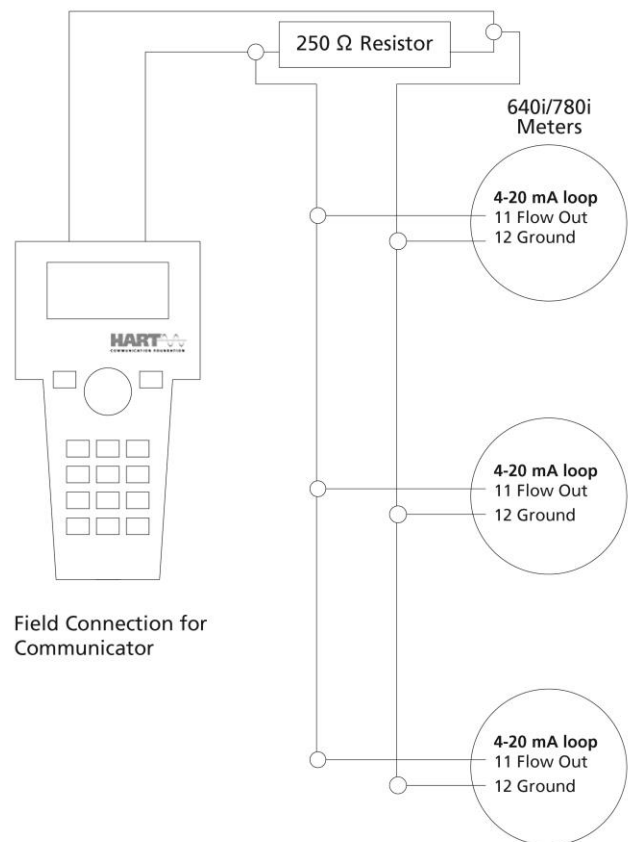


Figure 2: Multi-drop, digital signal only, 4-20mA must be set to a fixed 4 mA (refer to [640i/780i instruction manual](#)) for 4-20mA adjustment control, non-isolated 4-20 mA loop

Online Menu

The top level menu of the HART communicator is presented below.

