

Bi-directional Flow Measurement



Introduction

Yokogawa Differential Pressure transmitters are capable of measuring bi-directional flow. The direction of the flow is indicated in the analog output signal and the display.

Applicable Models

- > **EJA-E Series:** EJA110E, EJA120E, and EJA130E
- > **EJX-A Series:** EJX110A, EJX120A, and EJX130A

Setup

The Bi-directional Flow Measurement capability must be enabled. Once enabled, the transmitter assigns 50% of the 4 to 20 mA analog signal to the 0 DP measurement (No flow). This also sets the display to read -100% to +100%. The sign indicates the direction of the flow.

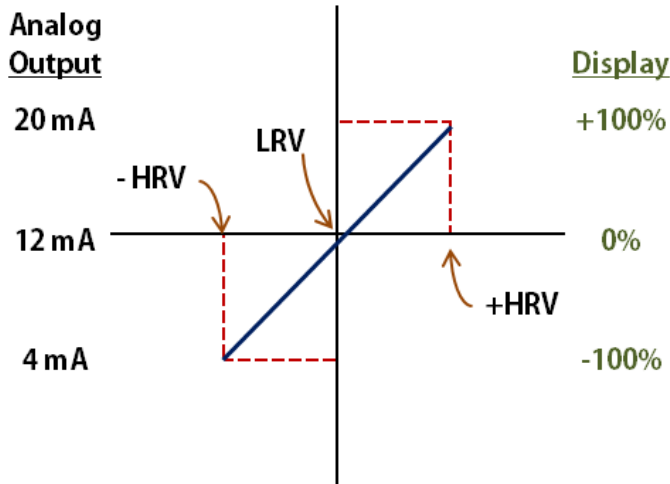


Figure 1: Bi-directional flow with Output mode "Linear"

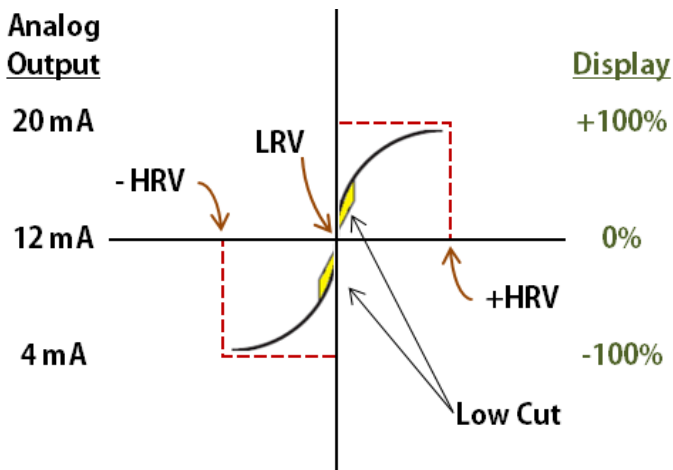
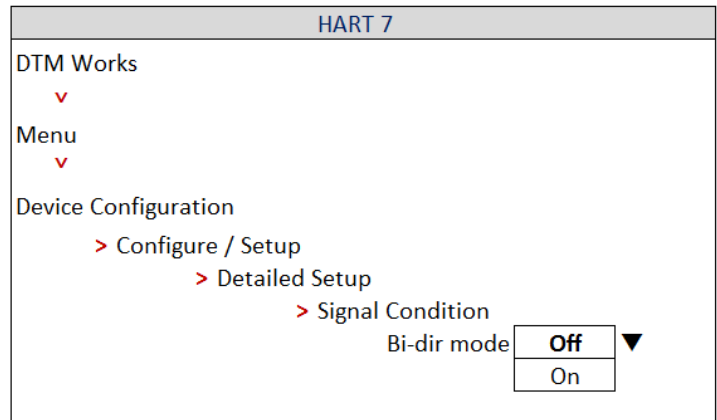


Figure 2: Bi-directional flow with Output mode "Square Root"

The Bi-directional Flow Measurement can be enabled via FieldMate.

FieldMate™

HART 7



FGP200-03.a

Although FieldMate is highlighted here, any Hart Communicator has access to these functions. Refer to the User's Manual for the HART menu tree.

The function is available on HART 5 and HART 7.

Setting when Shipped

Item	Setting
Bi-dir mode	Off

FGP200-04.a

BRAIN PROTOCOL

The feature described in this FieldGuide is also available for EJA-E and EJX-A transmitters with BRAIN Protocol communication. Please refer to the User's Manual for details.

