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Technical Bulletin

IZMS HART Installation

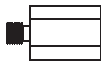
Kit Part# 56705A0001

SPECIFICATIONS

Communication:	HART version 6
Loop Power (excitation):	24 vdc
Output:	4-20mA dc, 2-wire
Loop Resistance:	500 ohms (max) at 24 vdc
Cable Recommended:	2 conductor; stranded, 18-24 AWG, shielded with ground

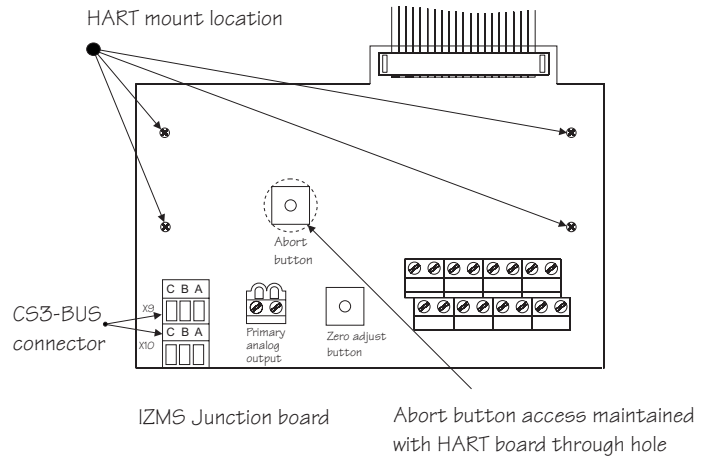
INSTALLATION

HART board hardware for installation to an IZMS flowmeter



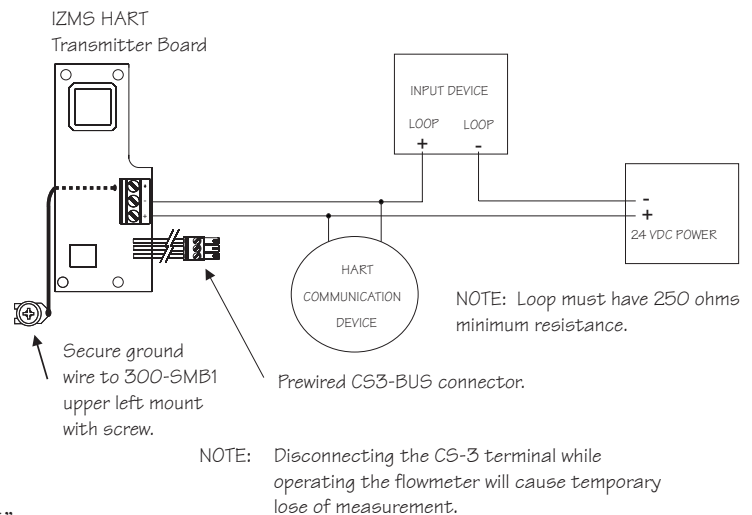
Qty: 4 – M3 x 10mm standoffs
(Included in kit)

- 1.) Remove the X9 terminal block from the Junction board indicated to the right.
- 2.) Remove the 4 indicated screws holding the Junction board to the Main circuit board (see manual AIC2040 page 1-5, Figure 1-5).
- 3.) Place the screws and washers to the side for reuse when installing the HART board.
- 4.) Install M3 x 10mm standoffs to the 4 HART mount location indicated on the Junction circuit board positions indicated to the right.
- 5.) Fasten the HART board to the Junction board using the screws removed in step 2.
- 6.) Connect prewired CS3-BUS connector to corresponding X9 socket located on the Junction board.



Zero Trim

- 1.) Apply loop power to the HART transmitter board after applying power to the IZMS converter.
- 2.) Connect the HART communication device across the transmitter terminals. The signal loop must have at least 250 ohms resistance for HART communication device function.
- 3.) Turn on the HART communication device. Wait until communications are established and the Home Menu is displayed.
- 4.) If the Process Value is not within specification after stabilization:
 1. Select Calibration
 2. Select D/A trim
 3. Select "OK" to acknowledge WARN-LOOP remove from auto control
 4. Select "OK" to acknowledge connection of mA indicator
 5. Select "OK" to acknowledge setting field deviation output to 4mA.
 6. Enter indicated mA value and acknowledge with selecting "OK"
 7. Acknowledge indicated mA adjustment with "YES/NO" then select "OK"
 8. Select "OK" to acknowledge setting field deviation output to 20mA.
 9. Enter indicated mA value and acknowledge with selecting "OK"
 10. Acknowledge indicated mA adjustment with "YES/NO" then select "OK"
 11. Select "OK" to acknowledge loop returning to original output
 12. Select "OK" to acknowledge NOTE return to auto control



NOTE: HART output will fault at 3.85mA with loss of IZMS signal.

IZM HART Flowchart

