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Technical Bulletin

IZML HART Installation Kit Part# 56704A0001

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 IZML flowmeter with Non-Display cover



Qty: 2 - M6 x 10mm screws
(Included in kit)



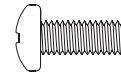
Qty: 2 - 6mm Flat Washer

- 1.) Remove the CS3-BUS terminal block from the IZML Main board (see Main board drawing on page 20 of the IZML manual AIC2041).
- 2.) Fasten HART transmitter board to IZML converter cover at the lower standoff location using two M6 x 10mm screws.
- 3.) Connect prewired CS3-BUS connector to corresponding socket located on the IZML main board.

HART board hardware for installation to an IZML flowmeter with Display cover



Qty: 2 - Nylon Spacers
(Included in kit)



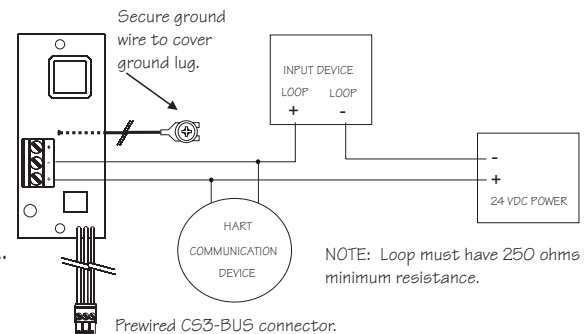
Qty: 2 - M6 x 16mm screws
(Included in kit)

- 1.) Remove the CS3-BUS terminal block from the IZML Main board (see Main board drawing on page 20 of the IZML manual AIC2041).
- 2.) Replace both IZML converter cover display board lower stand off mount screws with nylon spacer, then HART transmitter circuit board, then lock washers from the original mount screw, and two M6 x 16 mm screws.
- 3.) Connect prewired CS3-BUS connector to corresponding socket located on the IZML main board.

Zero Trim

- 1.) Apply loop power to the HART transmitter board after applying power to the IZML 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

IZML HART Transmitter Board
Part Number 56014E0137



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

IZM HART Flowchart

