

4-20 mA Signal Input

LevelBAR indicators are designed to accept the proportional 4-20 mAdc electrical signal from typical two wire loop powered transmitters. Each LevelBAR indicator includes an onboard 24 Vdc supply that can be used to power the transmitter and signal loop. If an external power supply is used within the loop circuit, the onboard 24 Vdc must be internally bypassed within the indicator. (See JP1.)

JP1 Loop Power Jumper (24 Vdc Power)

The internal 24 Vdc supply can either be used or bypassed (external), depending upon whether an external transmitter power supply is already being used.

JP1 Internal Power: +24 Vdc is applied through the + signal terminal (#5) to the transmitter.

JP1 External Power: Onboard power supply is bypassed.

Signal Loop Power (14-40 Vdc)

If an external source of Vdc power to drive the signal loop is used, you must set the JP1 jumper for EXTERNAL power (see jumper illustration).

Shield Connections (Optional)

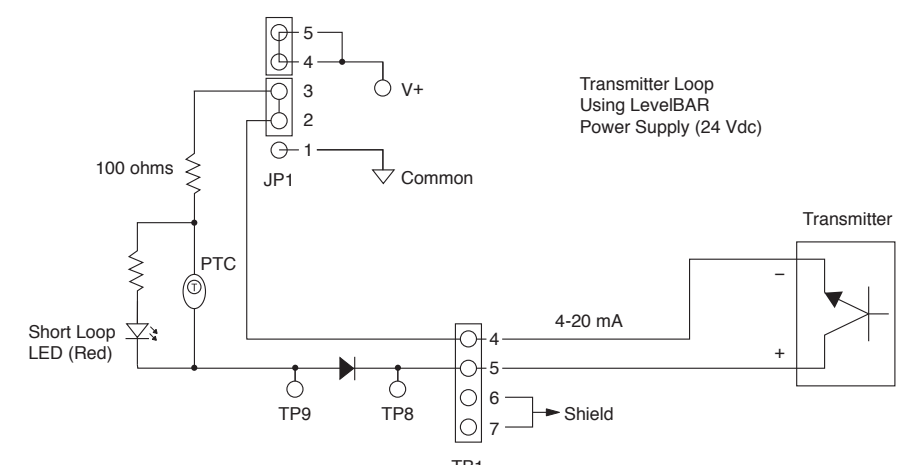
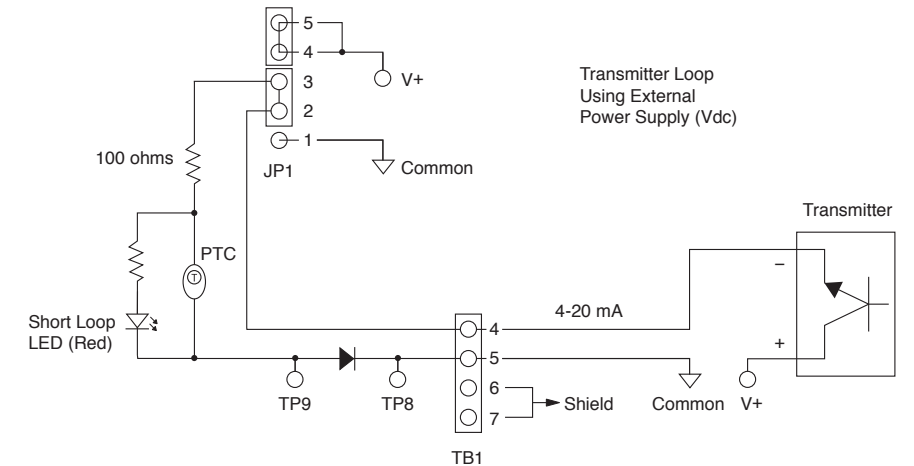
If shielded twisted pair cabling is used for the signal loop (4-20mA), note that the LevelBAR indicator factory default is for floating ground. JP7 (shield—float/chassis) and JP8 (power supply—float/chassis) are provided on the LevelBAR circuit board. Grounding the signal loop should only be attempted by a trained technician.

Graph LEDs (Diagnostic Test Mode)

The LevelBAR LED column can be tested to ensure all individual segments are functional using the JP2 jumper at the upper left portion of the circuit board. **NOTE: For normal operation JP2 must be in the "run" position.**

JP2 Test: causes all LED segments to light up (test only)

JP2 Run: normal display mode (LEDs light in response to signal input)



INSTALLATION INSTRUCTIONS

KING-GAGE®
LevelBAR v2
Electronic Input (4-20 mA)
Model 5111-10

		DATE	5/14/2010
		DRAWN BY	D. Kennedy
A	5/10	Released	APPROVED

KING ENGINEERING
Since 1937 Marsh Bellofram Group of Companies
8019 Ohio River Blvd. Newell, WV 26050 U.S.A.
Phone: 304-387-1200 • Fax: 304-387-4417
www.king-gage.com

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SHEET 2 OF 2

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