

Figure 1 – Mounting Dimensions

LevelBAR Mounting

The indicator should be mounted in a suitable location where electrical power will be available. While the housing affords protection against repeated wash downs, high humidity or extremely wet locations should be avoided whenever practical. Use only the supplied watertight cord grips or other watertight connectors (conduit) for the installation. Do not locate system where sub-freezing temperatures will be encountered (30°F / -1°C below).

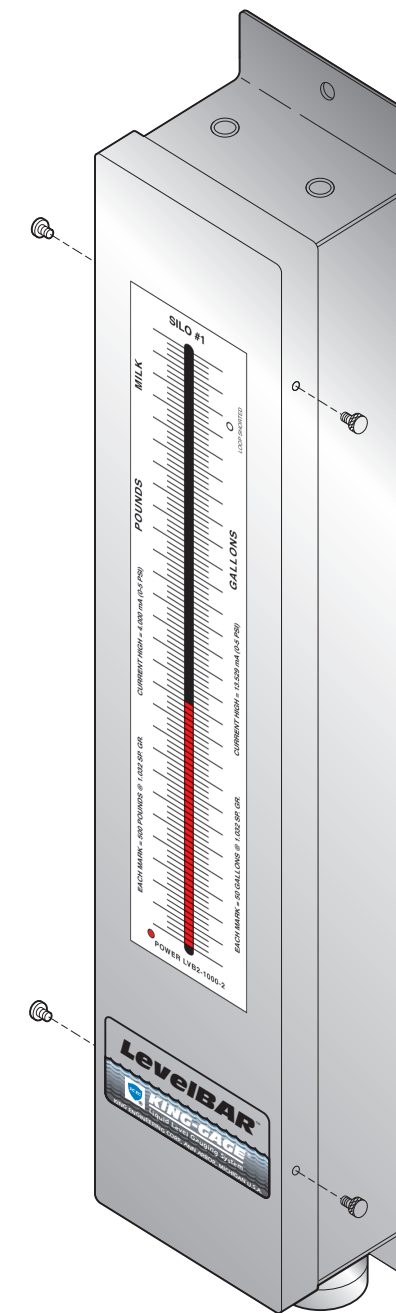
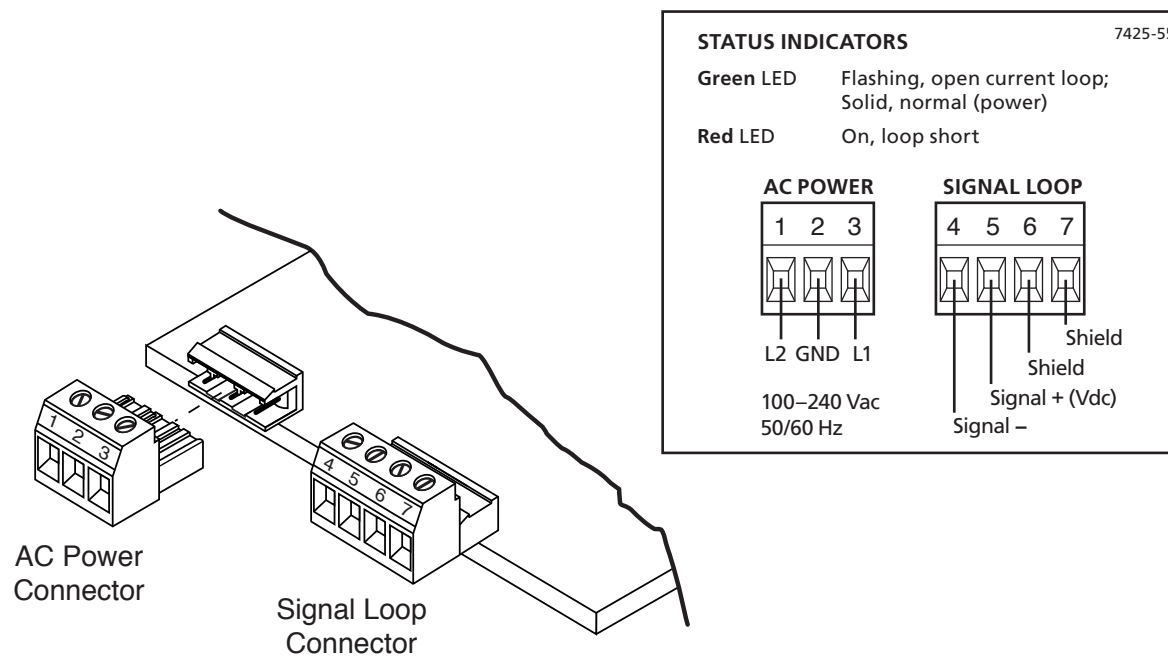
1. Mount housing vertically with wiring input connections at bottom as shown. Use mounting dimensions given in **Figure 1**.
2. Bolt the housing securely to wall or other rigid structural member.

Internal Electrical Connections

To access the internal connections, remove the four (4) thumbscrews that secure the cover.

Power (100-240Vac, 50/60Hz)

Connect the LevelBAR indicator to a grounded 100-240Vac, 50/60Hz. power source. Source ground must be connected to terminal #2 (L1/**GND**/L2) as indicated. (Note that "hot" or "neutral" power conductors may be connected to either the L1 or L2 terminals.) Use only the supplied watertight cord grips or other watertight connectors (conduit) for the power cabling.



INSTALLATION INSTRUCTIONS

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

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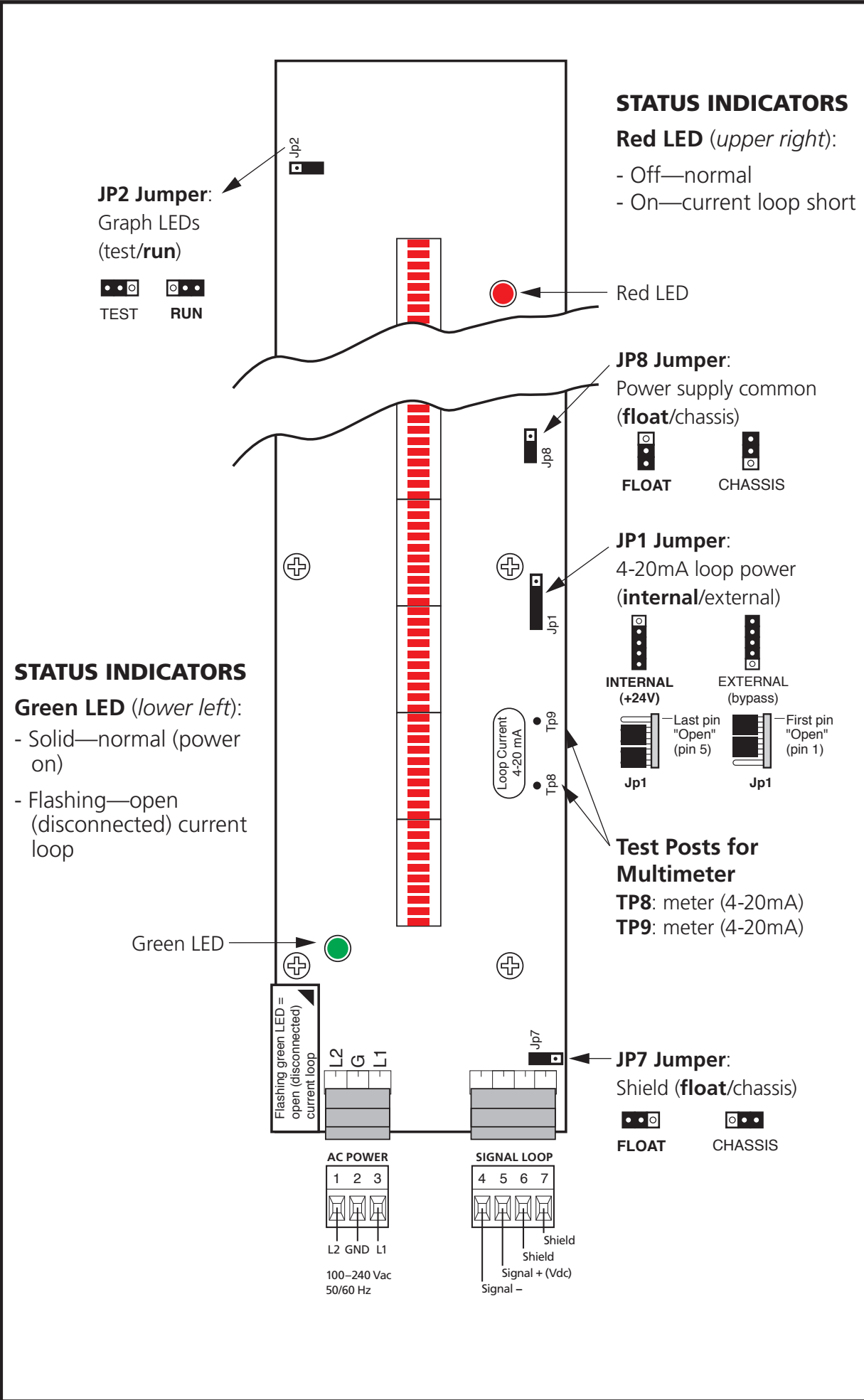
KING
ENGINEERING

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DWG. NO.
K-1090-1-5111

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REV.
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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)

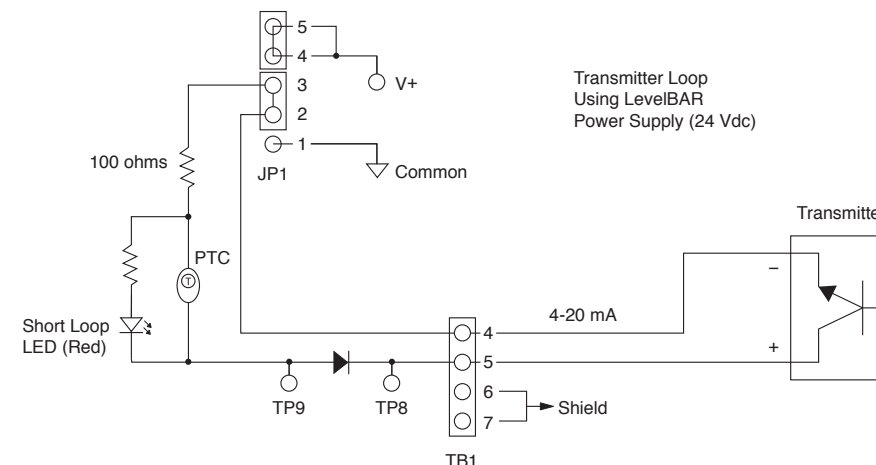
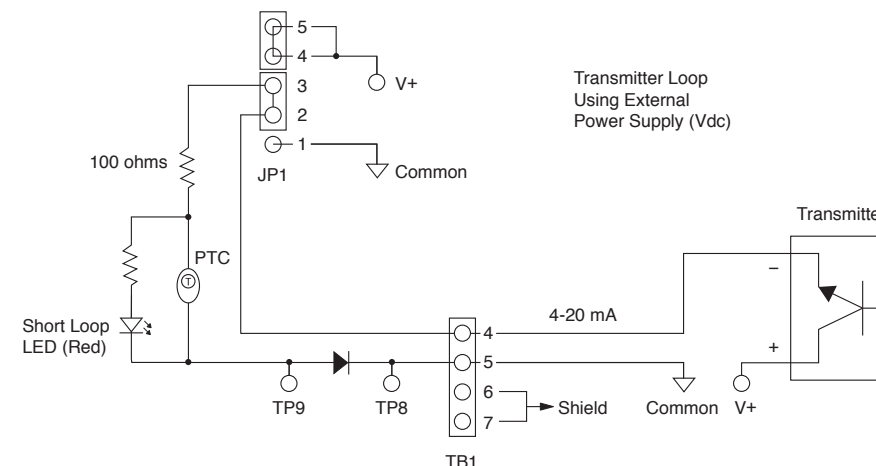
If shielded twisted pair cabling is used for the signal loop (4-20mA), note that the LevelBAR indicator factory default is for floating ground. JP7 (shield—float/chassis) and JP8 (power supply—float/chassis) are provided on the LevelBAR circuit board. Grounding the signal loop should only be attempted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



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