

# LevelBAR Electronic Column Indicator



## 5111 SERIES

- High visibility tank level display
- Individually calibrated indicator scale
- Electronic (4 mA to 20 mA) or pneumatic input
- Direct replacement for manometer gauges

### APPLICATIONS

- Tank level indication
- Marine
  - Tank level, draft monitoring and vessel management
  - Ballast water
  - Fuel oil
  - Fresh water
  - Lube oil
  - Brine
  - Preload
  - Holding

### SPECIFICATIONS

Display accuracy/resolution	1%
Display type	100-segment LED (light emitting diode)
Display length	10 7/254 mm
Input power	100–240 Vac, 50/60 Hz
Output power	24 Vdc (transmitter excitation)
Input impedance (resistance)	150 ohm nominal (3.0 Vdc drop @ 20 mA)
Current limiting (overload)	Automatic trip/reset circuit using PTC (positive temperature coefficient) resistor holds maximum current level within operating range of internal components.
Temperature range (Environmental)	30 °F to 120 °F (-1 °C to 49 °C) operating range
Signal input (Electronic input model)	4–12 mAdc (min.) to 4–20 mAdc full scale range
Pressure ranges (D/P option models)	0–5, –10, –15, –30, –50 psid fixed range transmitter element (accepts clean, dry air/gas pressure input). Maximum pressure rating is 300% FS. Minimum pressure range for proper operation is 50% of nominal. The lowest acceptable input pressure range is 0–2.5 psid using the 0–5 psid transducer element.
Transmitter accuracy (D/P option models)	0.5% FS
Output (D/P option models)	4–20 mAdc (assumes FSO)
Maximum load capacity (D/P option models)	1400 ohms @ 40 Vdc (external power) 600 ohms @ 24 Vdc (internal power)
Physical data	304 Stainless Steel housing and cover with gasket seal, transparent polycarbonate display window. Intended to meet splash proof requirements. The use of waterproof conduit hubs or fittings may be required during installation. Not rated for continuous explosion hazard areas.



ORDERING INFORMATION															
<b>SERIES</b>	5111 LevelBAR Electronic Column Indicator														
<b>INPUT TYPES/RANGES</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; vertical-align: top;"> <b>Pneumatic Input with Internal D/P Transmitter</b> </td> <td style="width: 25%; vertical-align: top;"> <b>20</b> 0-5 psid nominal range; Min. Full Scale: 0-69 in. water depth (0-1.8 m water); Max. Full Scale: 0-138 in. water depth (0-3.5 m water)                 </td> <td style="width: 25%; vertical-align: top;"> <b>22</b> 0-15 psid nominal range; Min. Full Scale: 0-207 in. water depth (0-5.3 m water); Max. Full Scale: 0-415 in. water depth (0-10.5 m water)                 </td> <td style="width: 25%; vertical-align: top;"> <b>24</b> 0-50 psid nominal range; Min. Full Scale: 0-692 in. water depth (0-17.6 m water); Max. Full Scale: 0-1384 in. water depth (0-35.1 m water)                 </td> </tr> <tr> <td style="vertical-align: top;"> <b>mA Input</b> </td> <td style="vertical-align: top;"> <b>10</b> 4-12 mAdc through 4-20 mAdc                 </td> <td style="vertical-align: top;"> <b>23</b> 0-30 psid nominal range; Min. Full Scale: 0-415 in. water depth (0-10.5 m water); Max. Full Scale: 0-830 in. water depth (0-21.0 m water)                 </td> <td style="vertical-align: top;"> <b>25</b> 0-2 psid nominal range; Min. Full Scale: 0-28 in. water depth (0-0.7 m water); Max. Full Scale: 0-83 in. water depth (0-2.1 m water)                 </td> </tr> <tr> <td style="background-color: #e0e0e0;"><b>Hand Pump Operation for Downpipe Purge*</b></td> <td style="vertical-align: top;"> <b>30</b> 0-5 psid w/ hand pump; Min. Full Scale: 0-69 in. water depth (0-1.8 m water); Max. Full Scale: 0-138 in. water depth (0-3.5 m water)                 </td> <td style="vertical-align: top;"> <b>31</b> 0-10 psid w/ hand pump; Min. Full Scale: 0-138 in. water depth (0-3.5 m water); Max. Full Scale: 0-276 in. water depth (0-7.0 m water)                 </td> <td style="vertical-align: top;"> <b>35</b> 0-2 psid w/ hand pump; Min. Full Scale: 0-28 in. water depth (0-0.7 m water); Max. Full Scale: 0-83 in. water depth (0-2.1 m water)                 </td> </tr> </table>			<b>Pneumatic Input with Internal D/P Transmitter</b>	<b>20</b> 0-5 psid nominal range; Min. Full Scale: 0-69 in. water depth (0-1.8 m water); Max. Full Scale: 0-138 in. water depth (0-3.5 m water)	<b>22</b> 0-15 psid nominal range; Min. Full Scale: 0-207 in. water depth (0-5.3 m water); Max. Full Scale: 0-415 in. water depth (0-10.5 m water)	<b>24</b> 0-50 psid nominal range; Min. Full Scale: 0-692 in. water depth (0-17.6 m water); Max. Full Scale: 0-1384 in. water depth (0-35.1 m water)	<b>mA Input</b>	<b>10</b> 4-12 mAdc through 4-20 mAdc	<b>23</b> 0-30 psid nominal range; Min. Full Scale: 0-415 in. water depth (0-10.5 m water); Max. Full Scale: 0-830 in. water depth (0-21.0 m water)	<b>25</b> 0-2 psid nominal range; Min. Full Scale: 0-28 in. water depth (0-0.7 m water); Max. Full Scale: 0-83 in. water depth (0-2.1 m water)	<b>Hand Pump Operation for Downpipe Purge*</b>	<b>30</b> 0-5 psid w/ hand pump; Min. Full Scale: 0-69 in. water depth (0-1.8 m water); Max. Full Scale: 0-138 in. water depth (0-3.5 m water)	<b>31</b> 0-10 psid w/ hand pump; Min. Full Scale: 0-138 in. water depth (0-3.5 m water); Max. Full Scale: 0-276 in. water depth (0-7.0 m water)	<b>35</b> 0-2 psid w/ hand pump; Min. Full Scale: 0-28 in. water depth (0-0.7 m water); Max. Full Scale: 0-83 in. water depth (0-2.1 m water)
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**NOTE:** Scale information must be supplied when order is placed  
 \* Typical applications should not exceed 10 feet / 3 meters. Greater depth will require excessive hand pumping.

**EXAMPLE**

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