

Product specifications for model 4100 Series

Product specifications (LCD Level Gauge)

sensor type	diaphragm
function	LCD Level Gauge (see page 2 for transmitter)
range	30", 60", 80" 110" or 160" H ₂ O, other ranges to 600" (% full set by user *)
porting size	1/4" NPT in-line
max. line pressure	1000 psig
maximum temperature	70°C (160°F)
minimum temperature	-15°C (5°F) for Buna-N™ & Viton™ -20°C (-5 °F) for EPDM (see note 2 below)
primary wetted parts	aluminum
secondary wetted parts	302SS range spring, SmCo magnet
seals	Buna-N™ standard, Viton™ & EPDM optional
accuracy	±5% of full scale, descending (over top 90% of full scale, approx.)
repeatability	±2% of full scale

Features, display and interface

- Lithium battery powered, 2 yr. average life (actual battery life depends on usage & temperature)
- Graphic display: 1.5" x 2.75"
- Push-button wake-up feature, "on" for 15 seconds
- Push-button backlight
- User-programmable units (ΔP): PSI, in. H₂O, mm H₂O
- 0-100% level indication
- 0.3" character height
- Tank graphic of liquid level
- User input (push button) to set "full" for % readout *
- Low battery indication
- NEMA 4X, IP65 polymeric enclosure with protective vent

- Notes**
- (1) See page 2 for transmitter specifications
 - (2) Transmitter (next page) has lower temperature option (w/ EPDM diaphragm)

Product specifications for model 4100 Series

Product Specifications (LCD Level Gauge, Transmitter)

sensor type	diaphragm
function	LCD Level Gauge/Transmitter
range	30", 60", 80" 110" or 160" H ₂ O, other ranges to 600" (% full set by user *)
porting size	1/4" NPT in-line
max. line pressure	1000 psig
maximum temperature	70°C (160°F)
minimum temperature	-15°C (5°F) for Buna-N™ & Viton™ -20°C (-5 °F) for EPDM -30°C (-22°F) with heater option (EPDM required)
primary wetted parts	aluminum
secondary wetted parts	302SS range spring, SmCo magnet
seals	Buna-N™ standard, Viton™ and EPDM optional
accuracy	±5% of full scale, descending (over top 90% of full scale, approx.)
repeatability	±2% of full scale

2-wire 4-20 mA Current Loop Features

- Supply voltage: 24 VDC (nominal)
- Loop resistance: 250Ω (nominal)
- Voltage drop: 12 VDC

Graphic Display Features

- Display effective area: 1.5" x 2.75"
- Push-button wake-up feature, "on" for 15 seconds
- User-programmable units (ΔP): PSI, in. H₂O, mm H₂O
- 0-100% level indication
- 0.3" character height
- Tank graphic of liquid level
- User input (push button) to set "full" for % readout

Enclosure & Cables

- NEMA 4X, IP65 polymeric enclosure with protective vent
- Electrical termination: 3 ft. 4-wire cable, connecting to bottom of enclosure
- Pin out: (pin 1) **loop -** (BLK) (pin 2) **isolated GND** (GRN)
(pin 3) **loop +** (RED) (pin 4) **isolated +12 VDC** (WHT)

Options

- 3 foot 4-wire cable allows for optional 12 VDC external power (separate from loop supply) to operate:
 - LCD heater: turns on at 0°C (32°F), allows for operation down to -30°C (-22 °F), EPDM required
 - Push button backlight for LCD display