Liquid Level Transducers and Transmitters for Tank Applications

BCM liquid level transmitters are developed from BCM pressure sensors, and most of them are featured by their flush-diaphragm making, cleaning easier for tank applications. Nevertheless, the LV35-series are designed of inner cavity with O-ring seal in its welded parts. The welded parts of the other-series (LV36-, LV37-, LV38-, and LV66-series) are made from 316L SS and the seal of welded parts is guaranteed by fully-welded construction to prevent liquid leakage into the products.

The temperature compensation technique is used to compensate the thermal drift of the level transducers and transmitters. A dedicated seal technique is applied to the cable gland so as to guarantee no leakage of liquid into the liquid level transmitters.

- pressure type: gauge or absolute
- accuracy: 0.25 %, 0.5 %
- protection: IP68
- For transmitters:
  - output: 4–20 mA, or 0–5 Vdc, 0–5 Vdc, 10%–90%Vs ratiometric, C/I, SP
  - power supply: 12, ... 36 Vdc.
- For transducers:
  - output sensitivity: ≥ 15 mV/V
  - excitation: 5, ... 10 Vdc, or 0.5, ... 2 mA

LV35 Submersible Liquid Level Transducers and Transmitters for Tank Applications in Chemical Industry
- liquid medium: corrosive chemical liquid
- diaphragm: ceramic (97% Al2O3)
- housing material: PTFE
- measuring ranges: 0–1 mH2O, ..., −200 mH2O
- output: 4–20 mA, or 0–5 Vdc, 0–5 Vdc, 10%–90%Vs ratiometric, C/I, SP
- power supply: 12, ... 36 Vdc.

LV36 Submersible Liquid Level Transducers and Transmitters for Tank Applications
- liquid medium: water, seawater, diesel, gasoline
- measuring ranges: 0–1 mH2O, ..., −200 mH2O
- output: 4–20 mA, or 0–5 Vdc, 0–5 Vdc, 10%–90%Vs ratiometric, C/I, SP
- power supply: 12, ... 36 Vdc.

LV38 Submersible Liquid Level Transducers and Transmitters with Overvoltage Protection
- measuring ranges: 0–1 mH2O, ..., −200 mH2O
- output: 4–20 mA with HART protocol

LV66 Oil Level Transmitters for Fuel Tank Applications
- liquid medium: oil, fuels, or other non-conductive liquid
- measuring ranges: 0–10 mH2O, ..., −1000 mm
- output: 4–20 mA, 0–5 Vdc, 0–10 Vdc
- accuracy: 0.5 %fs, 1 %fs, ... 5 %fs

Differential Pressure Transducers & Transmitters

BCM differential pressure transducers and transmitters (218D and 219D) are manufactured from differential pressure sensors (101Ba150jg) for smart valve application. The temperature compensation technique is used when these transmitters are compensated for their thermal drift.

The temperature specifications of BCM differential pressure transducers and transmitters are the same as the 131-series pressure transducers & transmitters.

218D Differential Pressure Transducers for Smart Valve Application
- pressure ranges: 0–0.1 bar, ..., −35 bar
- static pressure: 10 x full scale (max. 100 bar)
- output sensitivity: ≥ 4 mV/V
- accuracy: 0.5 %fs
- excitation: 5 Vdc or 1 mA
- process connection: G1/4 male or female
- electrical interface: PVC shielded cable, DIN43855

219D Differential Pressure Transmitters for Smart Valve Application
- pressure ranges: 0–0.1 bar, ..., −35 bar
- static pressure: 10 x full scale (max. 100 bar)
- output: 4–20 mA, 0–5 Vdc, 0–5 Vdc, 10%–90%Vs ratiometric, C/I, SP
- accuracy: 0.5 %fs
- supply: 12, ... 36 Vdc.
- output: 4–20 mA with HART protocol
- electrical interface: DIN43855

The listed specifications are subject to change without prior notice.
110S-series

Precision Pressure Transducers for Metering Applications

- Pressure range: -0.08 to 0.03 MPa (or 0 to 0.03 bars)
- Accuracy: ±0.25%
- Sensitivity: ±0.015 MPa
- Operating temperature range: -20 to 60 °C
- Pressure type: gauge

120-series

Flush-Diaphragm Pressure Transducers for Viscometric or Pneumatic Medium Applications

- Pressure range: 0 to 16 bar
- Accuracy: ±0.5%
- Electrical connection: M20 x 1.5 male

132-series

Pressure Transmitters for Automotive and Household Appliances

- Pressure range: 0 to 40 bar
- Accuracy: ±0.5%
- Electrical connection: 3/8 UNF male or female

132S-PU Pressure Transmitters with Three-Clamp Hygienic Design Specifications:

- Pressure range: 0 to 16 bar
- Accuracy: ±0.5%
- Electrical connection: M20 x 1.5 male

135-series

Metal Full-Scale Gauge Technology

- Pressure range: 0 to 400 bar
- Accuracy: ±0.1% or ±0.25%
- Electrical connection: 1/4 NPT male

136S-series

Pressure Transmitters with Display for Field Applications

- Pressure range: 0 to 400 bar
- Display: 4-digit LCD
- Accuracy: ±0.5%
- Temperature range: -40 to 85 °C

100C-series

Pressure Transmitters for HVAC and Refrigeration Applications

- Pressure range: 0 to 400 bar
- Accuracy: ±0.5%
- Electrical connection: 3/8 UNF male or female

700-series

High-Pressure Pressure Transmitters for Economical Use

- Pressure range: 0 to 1000 bar
- Accuracy: ±0.5%
- Electrical connection: 3/8 UNF male or female

720G High-Pressure Pressure Transmitters and Transducers for Use in Water or Oil Well Applications

- Pressure range: 0 to 1000 bar
- Accuracy: ±0.5%
- Electrical connection: 3/8 UNF male or female

722F High-Pressure Pressure Transmitters and Transducers for Use in Water or Oil Well Applications

- Pressure range: 0 to 1000 bar
- Accuracy: ±0.5%
- Electrical connection: 3/8 UNF male or female

733F Pressure Transmitters and Transducers for Use with Wing Unions for Oil Well Applicators

- Pressure range: 0 to 400 bar
- Accuracy: ±0.5%
- Electrical connection: 3/8 UNF male or female

225-series

Heavy-Duty Pressure Transmitters with Display

- Pressure range: 0 to 400 bar
- Accuracy: ±0.1%
- Electrical connection: 3/8 UNF male or female
- Explosion proof: Ex II CT6

For detailed product information, please visit our website: www.BCMSENSORS.com