

# MEMBRANE LEVEL SENSOR



## Silent Features:

- ✦ Economical, Reliable and Durable Point Level Detection
- ✦ Multiple Diaphragm Materials
- ✦ Over-Pressure Protection
- ✦ Ultra-Sensitive Switch Option

## Applications

- ✦ Grain
- ✦ Wood Chips
- ✦ Chemicals
- ✦ Powders
- ✦ Cement
- ✦ Feed Pellets
- ✦ Sawdust
- ✦ Resin
- ✦ Plastic
- ✦ Rubber,
- ✦ Many other applications

The **DK's Membrane Level Sensor** is a simple and economical instrument suitable for the minimum and maximum level control inside silos or hoppers that contain non sticky materials, powders or granules like rice, corns, plastics, coffee, sand, lime, etc.

A membrane level sensor provides level indication by detecting pressure applied by the bulk material to the sensing membrane. The unit is installed to a vessel wall so that the membrane is exposed to the material to be sensed. As material contacts the membrane, a force is exerted through the diaphragm to a pressure plate within the level sensor. Physical deflection of the pressure plate actuates an internal micro switch for signaling alarms, lights or PLC inputs. When material recedes from the membrane, a light duty spring returns the pressure plate and internal switch back to their original positions. Humidity and temperature variations do not affect working; the membrane is collision and vibration proof.

The mounting is external on the silo's wall by the means of 3 holes placed on the fixing flange.

### TECHNICAL SPECIFICATIONS:-

MODEL - MLS-100

**Output:** SPDT dry contact, 15A @ 250 VAC.

**Enclosure:** die cast aluminum, weather proof to IP-65.

**Mounting Connection** flanged

**Pressure Rating:** atmospheric pressure only

**Wire Entry:** 1/2" NPT

**Diaphragm Material:** Neoprene/ PTFE, etc.

**Operating Temperature:** -40°C to 80°C.

**Minimum Vessel Dia.:** 14' (Smaller vessels will require modifications and extra gasketing.)



## D. K. Instruments

69A, Selimpur Road, Dhakuria,  
Kolkata – 700 031, West Bengal, India.

Ph. No.: 91-33- 2405 0944, Fax: 91-33-2415 2311.

E-mail: [info@dkinstruments.co.in](mailto:info@dkinstruments.co.in), Url: [www.dkinstruments.co.in](http://www.dkinstruments.co.in)

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