

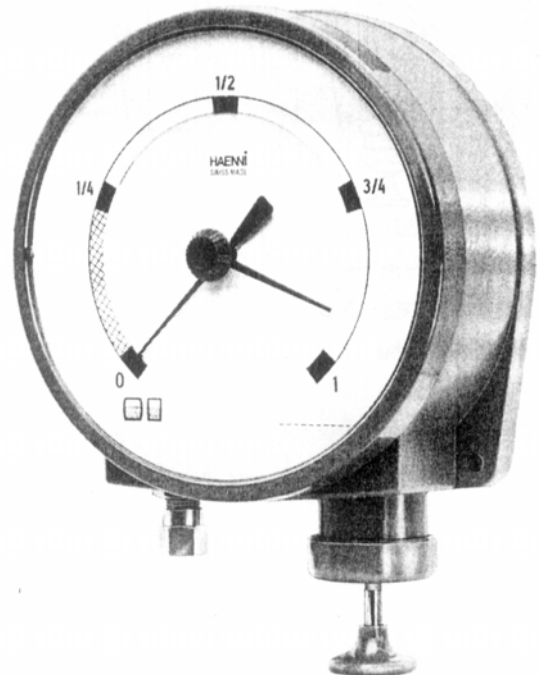
Momentary Tank Contents Gauge Model SDI 439

Introduction

The SDI Momentary Contents Gauge is an easy method of determining the level in a tank by measuring the hydrostatic weight of the liquid. The result or the head is then read on the calibrated dial.

Used where electrical measurements or electrical wiring is not allowed and where remote reading is necessary.

Application	Momentary measurements of contents in evacuated containers free from pressure. Suitable for clean liquids which will cause no corrosion. Viscosity max. 60°E. Maximum length of the measuring lead is 20 m.
Measuring range	0 - 1/4 - 1/2 - 3/4 - 1 for cylindrical and cubic containers. Measured heights of 0.7 to 5 m corresponding to pressures of 56 to 400 mbar (for $\rho = 0.8 \text{ kg/dm}^3$) Interchangeable dials.
Calibration	By content (1, m ³ , etc.) or liquid level
Accuracy	Cl. 1.6 as in DIN 16005
Execution	Case of grey plastic with built in air pump. Connected to compression fitting for copper or plastic pipe of Ø 6mm.
Measuring element	Capsule diaphragm of copper alloy with overpressure safety mechanism.
Movement	Brass, with adjustable measuring height up to 3 m.
Dial	White scale, graduation black
Pointer	Aluminum alloy, black
Lens	Plastic, red index pointer with fixed adjusting button



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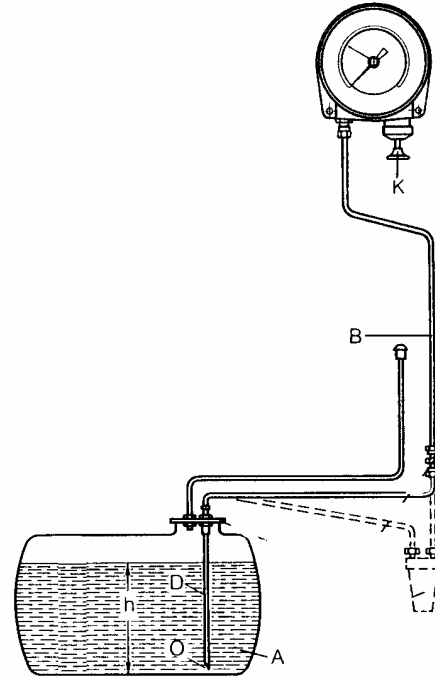


Temperature
Pressure

Momentary Tank Contents Gauge Model SDI 439 - Continued

Measuring Principle

In the evacuated tank **A**, the gauge pipe **D** reaches to the lowest point of the container. This gauge pipe is connected to a capsule diaphragm movement built into the contents indicator by means of the capillary tube **B** (Maximum length 20 metres, can be on a rising or falling gradient). At rest the liquid is at level **h** in the gauge pipe. If the coiled spring built into the air pump is tightened by pulling knob **K**, the piston slowly returns to its initial position. The air pressure thereby generated presses on the liquid column **h** until its level reaches the bottom of the container and air escapes at point **O**. The pointer indicates the value of **h** on the dial. The indicator remains stationary until the piston has returned to its zero position.



Models Available

Code	Description
ILI-SDF02	0.7...2 m (density $p = 0.8 \text{ kg/dm}^3$) for cubic and cylindrical containers. Adjustment by the customer
ILI-SDF03	1...3 m (density $p = 0.8 \text{ kg/dm}^3$) for cubic and cylindrical containers. Adjustment by the customer

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Temperature
 Pressure