

02 FEBRUARY 2026



# LEVEX PRODUCT BROCHURE

## INDUSTRIAL LEVEL SENSING SOLUTIONS

**LEVEX** provides high-performance industrial level sensing solutions designed for reliability and accuracy in demanding environments. Our range of products includes both point-level switches and continuous level transmitters, utilizing advanced capacitive and magnetic float technologies to meet a variety of process needs.

## 1. CP-LS Series: Capacitive Level Switch

The CP-LS series provides reliable **point-level detection** for liquids, powders, and bulk solids. It is an ideal solution for processes where mechanical switches are unsuitable, such as those involving viscous or sticky media.

- **Operating Principle:** The sensor's probe forms one plate of a capacitor. As material approaches or touches the probe, the dielectric constant changes, triggering an ON/OFF signal.
- **Key Features:**
  - No moving parts for maintenance-free operation.
  - Adjustable sensitivity via potentiometer to suit different media.
  - Solid-state electronics resistant to vibration, buildup, and contamination.
  - Multiple output options: Relay (SPDT), PNP, or NPN.
- **Typical Applications:**
  - Liquid level alarms
  - overflow prevention
  - granule detection in chemical and food processing.
- **Technical Highlights:**
  - **Probe Length:** 300mm standard; up to 6000mm available.
  - **Wetted Material:** Stainless Steel and TEFLON.
  - **Temperature Range:** -20C to 80C standard (optional up to 150C).



## 2. MF-LS Series: Magnetic Float Level Switch

For robust and reliable point-level detection in industrial tanks, the MF-LS series uses magnetic float technology to monitor water, fuel, oil, and chemicals.

- **Operating Principle:** A float containing a permanent magnet moves along a stem. When it reaches a preset position, it activates hermetically sealed reed switches inside the stem.
- **Key Features:**
  - Dry contact outputs: NO, NC, or change-over.
  - Customizable with single, dual, or multiple switching points on one probe.
  - High reliability with a long-life cycle.
- **Typical Applications:**
  - Pump control
  - dry-run protection
  - high/low level alarms
- **Technical Highlights:**
  - **Probe Length:** 100mm to 4000mm.
  - **Repeatability:** 5mm typical.
  - **Wetted Material Options:** Stainless Steel, PVC, or TEFLON.
  - **Temperature Range:** -20C to 80C standard (optional up to 120C).



### 3. MF-LT Series: Magnetic Float Level Transmitter

The MF-LT series is designed for **continuous liquid level measurement**, providing stable and accurate data for integration with PLCs and SCADA systems.

- **Operating Principle:** A magnetic float moves along a stem containing a resistance ladder. The float's position is converted into a proportional analog electrical signal.
  
- **Key Features:**
  - Continuous measurement (not just point switching).
  - Standard industrial outputs: 4-20 mA, 0-10 V.
  - Custom probe lengths up to several meters.
  
- **Typical Applications:**
  - Wastewater treatment
  - fuel storage monitoring
  - automated process control
  
- **Technical Highlights:**
  - **Resolution:** 1 cm or 2 cm options.
  - **Supply Voltage:** 12-24VDC
  - **Wetted Material:** Stainless Steel, TEFLON, or Plastic.
  - **Temperature Range:** -20C to 80C standard (optional up to 120C).



## 4. MF-TS Series: Magnetic Float Fuel Tank Sender

Specifically engineered for fuel tanks, the MF-TS series provides continuous level measurement with standard resistive outputs compatible with most fuel gauges and indicators.

- **Key Features:**
  - High-reliability resistance ladder technology.
  - Stainless steel wetted parts for durability in harsh fuel environments.
  - Easy installation and minimal maintenance requirements.
  
- **Typical Applications:**
  - Fuel and oil storage tanks
  - chemical processing
  - industrial automation
  
- **Technical Highlights:**
  - **Output Signals:** 0-90 Ohm, 10-180 Ohm, or 33-240 Ohm.
  - **Resolution:** 1.3 cm standard or 2.6 cm.
  - **Probe Length:** 200mm to 2000mm.



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### Ordering & Warranty

All LEVEX products are backed by a **12-month warranty** against manufacturing defects from the date of delivery.

**Customization:** We offer custom probe lengths, materials, and process connections to meet your specific application requirements. Contact our technical team for assistance in selecting the appropriate sensor for your process medium and environment.