

PRECIMETER

Molten metal level control

MLS-300 – Moving Level Sensor





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The Moving Level Sensor MLS-300 is a non contact sensor specially designed to measure the level and filling rate of molten metal in the mold during the cast of Rolling Ingot (Slab). It combines an inductive sensor head with a moving mechanism to allow the sensor head to follow the metal surface during the complete fill of a mold. During a steady state no movement is required. The MLS will provide the most accurate and reliable signal using inductive technology. The integrated design utilizing the unique

Precimeter sensor head that withstands surrounding temperatures up to 1000°C along this unit ensures durability in a cast house environment.

The sensor head it self requires NO cooling so the need for cooling air is minimized just for the integrated electronics.

For special designs, like other ranges, S-shaped sensor shafts or anything else required to meet certain requests please contact the Precimeter team.

ADVANTAGES

- ✓ No contact with the melt
- ✓ Adapted for optimal performance in slab casting mould application
- ✓ Probe withstands up to 1000°C
- ✓ Easy installation
- ✓ Compact, integrated and robust design
- ✓ Minimal maintenance
- ✓ Ethernet protocol (optional)

Technical Specifications

Clearance distance	10-40 mm (0.39"-1.57")
Measurement range	300 mm (11.8")
Power requirement	24 VDC <2.5A
Positioning	Stepper motor
Level output	4-20 mA
Internal temp output	4-20 mA (0-100°C, 32-212°F)
Digital inputs	Enable / Calibration
Digital output	Sensor status
Level switching outputs	2 switches (NO / NC)
Accuracy	±0.5 mm
Ethernet protocol	Optional (Profinet, Ethernet IP or Modbus TCP)
Interface	Serial communication
Cooling	Compressed air (1/4" connection) Only needed for built-in electronics, not needed for probe head

