NIRECO

ECLM-1000 SERIES

EDDY-CURRENT LEVEL METER FOR CONTINUOUS CASTING

NIRECO

NIRECO CORPORATION

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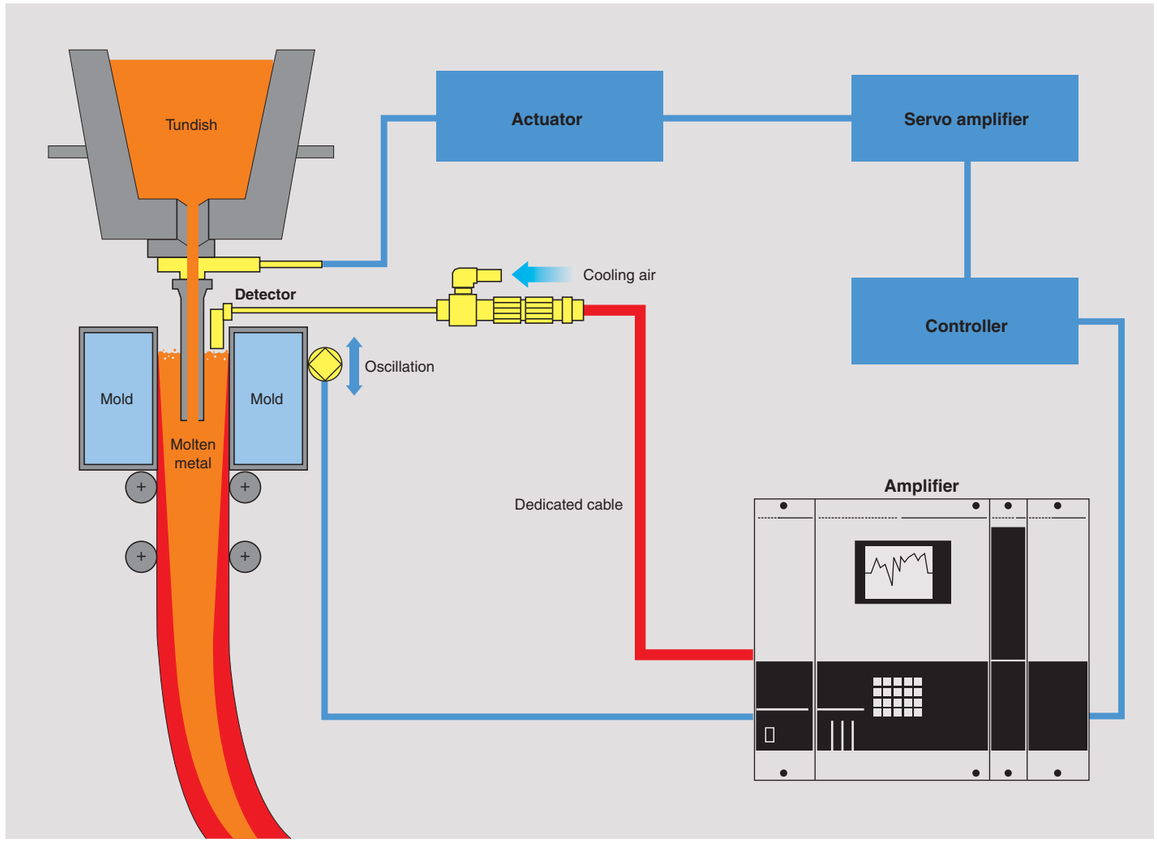

The ECLM-1000 series level meter has been designed for use as a molten-metal level control sensor within molds from the continuous casting equipment of iron manufacturing plants, and it comprises a detector, amplifier, and a dedicated cable. The detector employs electrical induction technology in order that it may measure the molten-metal level in a non-contact fashion while maintaining a compact size, and it features a wide measurement range in addition to excellent precision and response, Furthermore, by providing control results with little level deviation, it contributes to the improvement of casting quality. And thanks to the adoption of a digital amplifier and an LCD screen, both maintenance and workability have also been improved.

■ Configuration

Detector: The coil is protected using fire-retardant material and the inside of the detector is air cooled, thus ensuring excellent durability with respect to the molten-metal surface. Furthermore, a supporting holder (optional extra) can be used to easily install the detector on top of the mold.

Amplifier: The amplifier features a micro-computer, and it is also provided with a keyboard and display to realize an interface with excellent workability, Accordingly, the display of data and manipulation of adjustment parameters can be carried out easily.

Dedicated cable: This special cable is used to connect the detector and the amplifier.

●**Detector**

SB-3050A SB-060TF SB-3035A SB-028

●**Amplifier**

Main Features

- ●The molten-metal level is measured with high precision and fast response.
- ●The system is influenced little by electromagnetic interference and the like, thus ensuring that stable and consistent measurements may be made.
- ●The replacement of detectors may be easily carried out.
  - · Lightweight for easier handling
  - · High level of compatibility
- ●A digital amplifier has been employed to ensure full functionality.
  - · Linearizer function - Up to 10 types of linearizer characteristic may be stored.
  - · Filter function - This function enables the automatic adjustment of the mold vibration-noise elimination circuit.
  - · OPC operation function - OPC sequences are integrated into the amplifier.
  - · Operation monitoring function - This function permits the monitoring of level output, OPC operations, and filter-adjustment operations.
  - · LCD function - The linearizer tables and level-measurement condition may be displayed.

Detector	Model	SB-028	SB-3035A	SB-3050A	SB-060TF
	Measurement range	0 ~ 100 mm	0 ~ 150 mm	0 ~ 200 mm	0 - 150 mm
	External dimensions	28 × 194 mm	35 × 170 mm	51 × 185 mm	60 × 150 mm
	Weight	0.5 kg	0.6 kg	0.9 kg	1.0 kg
	Applicable molds	Billet, Bloom, Slab	Billet, Bloom, Slab	Slab	Slab
Amplifier	Model	MA1000			
	Display	LCD			
	Level output	4 ~ 20 mA DC			
	Linearity	± 1.0% (F.S)			
	Reproducibility	± 0.5% (F.S)			
	Response speed	0.5 sec.			
	Power supply	Power supply AC100, 110, 115, 120, 200, 220, 230, 240V ± 10%(by tap switching), 50/60Hz ± 2%, 150VA			
	External dimensions	557 mm (W) x 360 mm (H) x 283 mm (D)			
	Weight	25 kg			
Dedicated cable		20 m MAX			