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, 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. A digital amplifier has been employed to ensure full functionality.

- **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.

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### Main Features
- **Detector:** The molten-metal level is measured with high precision and fast response.
- **Amplifier:** The system is influenced little by electromagnetic interference and the like, thus ensuring that stable and consistent measurements may be made.
- **Detector:** The replacement of detectors may be easily carried out.
- **Amplifier:** Lightweight for easier handling
- **Detector:** 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.

### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Measurement range</th>
<th>External dimensions</th>
<th>Weight</th>
<th>Applicable molds</th>
<th>Power supply</th>
<th>External dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-028</td>
<td>0 - 100 mm</td>
<td>0 - 150 mm</td>
<td>0.5 kg</td>
<td>Billet, Bloom, Slab</td>
<td>AC100, 110, 115, 120, 200, 220, 240V ± 10%</td>
<td>557 mm x 360 mm x 283 mm</td>
<td>25 kg</td>
</tr>
<tr>
<td>SB-3035A</td>
<td>0 - 200 mm</td>
<td>0.6 kg</td>
<td>Billet, Bloom, Slab</td>
<td>Slab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB-3050A</td>
<td>0 - 200 mm</td>
<td>0.9 kg</td>
<td>Slab</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB-060TF</td>
<td>0 - 150 mm</td>
<td>1.0 kg</td>
<td>Slab</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

- **Detector:**
  - **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.

- **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