**FEATURE**

1. **Compact, light and easy to insulate**
   The sensing element is Optical fiber. That makes OCS compact, light and easy to insulate.

2. **Easy to install**
   To use this OCS, electric wires do not need to be cut because it consists of a reflective type optical circuit. In addition, it is easy to change the measurement point.

3. **Electromagnetic noise**
   OCS is immune to electromagnetic noise because all parts, except for electronic circuit, consist of optical components.

4. **Measurement of large current**
   Measurement of large current is possible because OCS doesn’t need to use an iron core which causes magnetic saturation.

5. **High-speed response**
   OCS detects and transmits current using optic. Due to this advantage, response for high-speed sensing is more efficient than conventional current sensor.

6. **Long distance signal transmission**
   Long distance signal transmission is possible because waveform distortion and transmission loss are low.

**APPLICATION**

- **Electric Power Field**
  Portable type measurement device for large current. Current monitor for under ground distribution cable lines. Current measurement for Switchgear and Circuit breaker.

- **Railroad**
  Inverter harmonic current measurement.

- **FA**

- **Automobile**
  Current waveform measurement for Motor, Capacitor, Inverter and IGBT.

- **Aviation / Vessel**
  Wire harness insulation deterioration diagnosis.

- **Other**
  Waveform measurement of impulse current such as Lightning current, Superconductive current measurement.

**SPECIFICATION**

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical Component</td>
<td>Signal Processor</td>
</tr>
<tr>
<td>Model No.</td>
<td>AOCM-100</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC100V ~ 250V, 50Hz or 60Hz</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>0 ~ 5kA rms</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>10Hz ~ 10kHz</td>
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<tr>
<td>Accuracy</td>
<td>JEC1201-1PS Class (at 1kA, 50Hz)</td>
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<tr>
<td>Output Form</td>
<td>“Numeric Display” and “Analog Voltage Output”</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>0 ~ 60°C</td>
</tr>
<tr>
<td>Size</td>
<td>W180mm×D308mm×H50mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.8kg</td>
</tr>
</tbody>
</table>

- **Optical Component Reflective Type Sensor Probe**
  - **Model No.** RFS155T1000P1000
  - **Sensor Probe Length** 1m
  - **Sensor Fiber** Low-Birefringence Optical Fiber (LBF155)
  - **Transmission Fiber** Polarized-Wave Holding Optical Fiber (PMF φ0.9)
  - **Optical Connector** SC/PC
  - **Wavelength** 1550nm
  - **Operating Temperature Range** -20 ~ 80°C

**APPEARANCE**

*This product was developed under the guidance of Tokyo Electric Power Company.

Contact : Photonics & Medical Div., Adamant Namiki Precision Jewel Co., Ltd.