MICROWAVE TOTAL SOLIDS METER

- Single point calibration for all concentrations
- Low installation and lifetime costs
- Reliable & accurate
- Not affected by process or media changes
- Easy to use display
- Wide TS concentration range
The CMC high concentration total solids meter is an excellent tool for continuous online TS concentration measurement in WWTP and biosolids applications. Common applications are thickened sludge prior to digesters, anaerobic sludge to centrifuges, primary clarifier sludge to biosolids applications. The rugged design with no moving parts insures high reliability and minimum maintenance. The microwave sensor is available in 2” – 12” sizes (DN 50 – DN300).

**CMC TS-METER**

**Range**
0 → 16% TS (0 → 160,000 mg/L or ppm) or 0-30% TS

**Repeatability**
0.01 % TS

**Resolution**
0.001% TS for sizes 50 - 300 mm (2” – 12”)
0.002% TS for size 80 mm (3”) and insertion type (IT)

**Sensor type**
Microwave TS consistency / concentration transmitter

**Wetted parts**
Sensor: SS 316L
Window: Ceramic

**Display unit**
ABS

**Enclosure class**
Sensor: IP66 (Nema 4x), Display unit: IP65 (Nema 4)

**Approvals**
EMC, CE, PED

**Output signal**
2 × analog outputs, 4–20 mA + HART®

**Binary inputs**
24 VCD, process stop, sludge type (2) and sampler input

**Binary outputs**
12–48 VDC, max 10 mA, dry contact

**Analog input**
2 external input, 4–20 mA, isolated

**Display unit**
Sensor: 0 → 60 °C (32 → 140 °F)

**Ambient temperature**
Sensor: 0 → 60 °C (32 → 140 °F)
Display unit: 0 → 60 °C (32 → 140 °F)

**Flow velocity**
Flow through type – no effect
Insertion type – max flow 5 m/s (16.4 ft/s)

**Conductivity limits**
- CMC 50 mm (2”) < 25 mS/cm
- CMC 80 mm (3”) < 25 mS/cm
- CMC 100 mm (4”) < 20 mS/cm
- CMC 150 mm (6”) < 20 mS/cm
- CMC 200 mm (8”) < 15 mS/cm
- CMC 250 mm (10”) < 15 mS/cm
- CMC 300 mm (12”) < 15 mS/cm
- IT 80 mm (3”) < 25 mS/cm

**Sensor dimensions**

<table>
<thead>
<tr>
<th>Size</th>
<th>H</th>
<th>W</th>
<th>L</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMC 80</td>
<td>285mm</td>
<td>138mm</td>
<td>100mm</td>
<td>10 kg</td>
</tr>
<tr>
<td>CMC 100</td>
<td>307mm</td>
<td>160mm</td>
<td>100mm</td>
<td>12 kg</td>
</tr>
<tr>
<td>CMC 150</td>
<td>363mm</td>
<td>216mm</td>
<td>100mm</td>
<td>16 kg</td>
</tr>
<tr>
<td>CMC 200</td>
<td>417mm</td>
<td>270mm</td>
<td>100mm</td>
<td>20 kg</td>
</tr>
<tr>
<td>CMC 250</td>
<td>467mm</td>
<td>320mm</td>
<td>100mm</td>
<td>25 kg</td>
</tr>
<tr>
<td>CMC 300</td>
<td>521mm</td>
<td>374mm</td>
<td>100mm</td>
<td>30 kg</td>
</tr>
</tbody>
</table>

**CMC CONTROLS AB**
P.O. Box 5084, SE-141 05 Kungens Kurva, Sweden • Tel: +46 8 501 694 00 • Fax +46 8 501 694 29
info@cerlic.se • www.cerlic.com