Turbidity Analyser FMTSC-Mx(E)
High Level Range Measurements with EPA Compliance

90 Degree Scattered Light Method
The turbidity sensor of the FMTSC-Mx(E) uses the 90 degree scattered light method, a global EPA standard.

Sapphire Glass Optical Windows
The optical windows are made of hard-to-scratch sapphire glass. This facilitates scrubbing of the window surface to keep the turbidity sensor clean.

Built-in Wiper Cleaning System
The built-in wiper cleaning system easily keeps the lenses clean.

Compact Design
The compact design makes installation easy.
Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Turbidity Monitoring</th>
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</thead>
<tbody>
<tr>
<td>Model No.</td>
<td>FMTSC-Mx (E)</td>
</tr>
<tr>
<td>Measuring range</td>
<td>20-10000.0 (NTU)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 5% of Reading</td>
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<tr>
<td>Repeatability</td>
<td>± 3% of reading</td>
</tr>
<tr>
<td>Response Time</td>
<td>5 sec (programmable 5 to 120 sec)</td>
</tr>
<tr>
<td>Power supply voltage</td>
<td>100-240V AC ±10% 50/60Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Normal: 15VA or less, During cleaning: 22VA max</td>
</tr>
<tr>
<td>Display resolution</td>
<td>20.0 NTU</td>
</tr>
</tbody>
</table>

Output
- Signal Output: (analog 4-20mA, resistance load of 300 W max)
- Self-checking Relay Output: (non-voltage C-contact capacity 240VAC, 1A resistance load)
- Alarm Relay Output: (non-voltage C-contact capacity 240VAC, 1A resistance load)

Alarm timer: 1 to 120 minutes (adjustable)
Calibration: Distilled water
Cleaning system: Automatic wiper cleaning system
Time interval for cleaning: 10 to 240 min (selectable)
Measuring water temperature: 0 to 60°C (unfrozen)
Ambient Temperature: Transmitter: -20°C to +50°C, humidity 95% Rh or less (Avoid direct sunlight)
Operating altitude: Altitude up to 2000m

Main material:
- Sensor: SS316L, sapphire glass, fluorocarbon rubber, EPDM, Polyolefin (cable)
- Transmitter: Polycarbonate

Dimensions:
- Sensor: approx. Ø 48 x 133 mm
- Transmitter: approx. W x H x S 240 x 162 x 75 mm

Weight:
- Sensor: approx 1.0 kg
- Transmitter: approx 1.6 kg

Degree of protection:
- Sensor: IP68, maximum depth of 2m (underwater type)
- Transmitter: IP65 (jetproof type)

Sensor cable length: 10m
Option: TSC-MK: maintenance kit.

Applications
Potable water
Filter efficiency and backwash
Surface water monitoring of lakes, rivers and streams
Water recycle and discharge
Plant effluent and offsite water
Phase separation and other process applications

Measurement of the Effluent
Measuring the turbidity of the effluent from the waste water treatment plant makes it possible to monitor the treatment condition.

Measurement of the Intake Water
Measuring the intake water for drinking water manufacturing process makes it possible to prevent any trouble that may be caused by sudden turbidity change.

Dimensions
- Sensor: Ø48, 112, 11, 10
- Transmitter: 27, 19, 11
- Mounting holes: Ø9
- Key hole: Ø7
- Applicable cable diameter: Ø6 to 8
- Mounting pitch: 186
- 100 mm to 200 mm

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