flow-captor Type 4114.30, 4115.30

The flow-captor type 4114.30 / 4115.30 is a flow meter for industrial applications which can be installed virtually non-intrusively into any pipe, allowing flow-sensing without obstruction of the pipe diameter. As the housing and sensor surface is of stainless steel (WN 1.4305) this small, compact flow-captor is very resistant to aggressive media. flow-captor type 4114.30 / 4115.30 operates accordingly to a new calorimetric principle, providing a wide measuring range.

The measurement accuracy at low flow rates is considerably better than all other contending measurement technologies. Because of the very short integration time, even at low flow, this analog flow-captor is ideally suited for quick control loops.

Completely epoxy resin encapsulated, this flow-captor is a compact, rugged, shock and vibration resistant flow sensor with proven reliability and long-term stability, even under the harshest environmental conditions.

Self-contained flow meter for all measurement and control applications, wide measurement range, non-intrusive sensing, linear current output, for liquids and semi-solids, no moving parts, stainless steel sensing surface.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Potentiometer-setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output current</td>
<td>related to flow speed at various potentiometer settings.</td>
</tr>
</tbody>
</table>

**Sensing-Data**

<table>
<thead>
<tr>
<th>Media</th>
<th>liquids, pastes, semi-solids (corrosive media - consult supplier)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>continually adjustable from min. 0 - 20 cm/s to max. 0 - 200 cm/s (related to water; extended range with other media)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>&lt; 3 %</td>
</tr>
<tr>
<td>Repeatability</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>Temperature drift</td>
<td>&lt; 0.3 %/K</td>
</tr>
</tbody>
</table>
flow-captor
Type 4114.30, 4115.30
Compact flow meter

Application Examples:

1. Voltage supply 24V DC ±10%
   Current consumption approx. 100 - 200 mA (max. flow)
   Output current 4 to 20 mA
   Resistive load 0 to 600 Ohm
   Measurement range adjustment:
   The two potentiometers at rear end of housing allow zero balancing and adjustment of the measuring
   range by means of a small screwdriver. A color changing LED signalizes flow within the adjusted
   measuring range (green) or above (red).

Connection Diagram:

2. Electrolyte Data

Connection Diagram:

3. Mechanical Data

Connection Diagram:

Dimensions in mm

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