Water Meter by Kalysys

Smart Meter

Application

Cold water, hot water, recycled water

Structure

Components of KALYSIS prepaid water meter:
- Mechanical flow meter (bronze) - Built-in motorized valve (bronze)
- Electronic control unit - LCD display

Types of water meters for customers’ selection:
Cold water – hot water – recycle water
Wet type – dry type
Single tariff – multi-tariff
Memory card – Logic encrypt card – CPU card

Basic Technical Specifications


Flow-rate range:

<table>
<thead>
<tr>
<th>Nominal Size(DN)</th>
<th>Class</th>
<th>Overload flow-rate Qs(m3/h)</th>
<th>Permanent flow-rate Qp(m3/h)</th>
<th>Minimum flow-rate Qmin(m3/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>A</td>
<td>3</td>
<td>1.5</td>
<td>0.045</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>3</td>
<td>1.5</td>
<td>0.03</td>
</tr>
<tr>
<td>20</td>
<td>A</td>
<td>5</td>
<td>2.5</td>
<td>0.075</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>5</td>
<td>2.5</td>
<td>0.05</td>
</tr>
</tbody>
</table>

Nominal pressure: 1.0Mpa
Water temperature:
Cold, recycle water meter: 0º-50º
Hot water meter: 30º-90º
Ambient temperature: 0º-60º
Relative humidity: ≤ 85%
Pressure loss: ≤ 0.1Mpa
Preset water volume: 2 m3
Warning limit of available credit: 2 m3 (programmable)
Maximum storage of water volume: 500 m3
\textbf{Features}

Compact design  
High reliability  
Low valve torque demand (long battery life)  
Low valve resistance to water flow (close to zero)  
All-time LCD display plus mechanical counter

\textbf{Installation requirements}

The meter must be installed horizontally, with “arrow” mark following direction of water flow. Enough vertical space shall be kept for card inserting.

\begin{table}[h]
\centering
\begin{tabular}{|c|c|c|}
\hline
\textbf{Water} & \textbf{Nominal Size DN} & \textbf{Prepayment Water Meter} \\
\hline
\text{Cold Water} & 15 & KY15CLY & 185 \\
\hline
\text{Cold Water} & 20 & KY20CLY & 195 \\
\hline
\text{Recycled Water} & 15 & KY15CZY & 185 \\
\hline
\text{Recycled Water} & 20 & KY20CZY & 195 \\
\hline
\text{Hot Water} & 15 & KY15CRY & 185 \\
\hline
\text{Hot Water} & 20 & KY20CRY & 195 \\
\hline
\end{tabular}
\end{table}

\textbf{Transport and Storage}

Transport temperature: -20° – 50°  
Storing temperature: 0° – 40° indoor  
Relative humidity: max 85%  
No shock and shake, no caustic atmosphere.