**CLARK**

**CLXC-C1 Series Single Jet Totalizing Water Meter**

1/2” & 3/4” Sizes, With or Without Reed Switch Output

**DESCRIPTION**

Model series CLXC-C1 meters are single-jet dry type totalizing water meters. They are an ideal choice for a range of water use monitoring applications as well as many OEM and industrial applications where keeping track of consumed water volume is important for meeting regulatory and environmental requirements.

A pulse output of one pulse per gallon, 10 gallons or 10 liters is available.

CLXC-C1 meters are accurate and reliable. They are produced in an ISO9001 certified production facility and conform to International Standard ISO4064.

**SPECIFICATIONS**

**GENERAL**

Measuring Principle: Single Jet  
Meter Type: Dry, magnetic coupling between rotor and register movement  
Meter Sizes: 1/2”, 3/4”  
Max Media Temperature:  
   Cold Water Meter: 122°F (50°C)  
   Hot Water Meter: 194°F (90°C)  
Max Operating Pressure: 150 PSI  
Proof Pressure: 300 PSI  
Proof Pressure: 300 PSI  
Materials:  
   Main Casing: Brass (CuZn40Pb2)  
   Register Box Rings: Brass (CuZn40Pb2)  
   Transparent Cover: Polycarbonate  
   Measuring Rotor: Polycarbonate  
   Rotor Spindles: 304 Austenitic Stainless Steel  
   Upper Plate: Polycarbonate  
   Bottom Plate: Polycarbonate  
   Register Gear Trains: POM  
   Worm Gear: POM  
Registration Accuracy, with water <80°F (27°C):  
   Normal Test Flow Range (Table 1): ±2%  
Pressure Drop: 15 PSI Max, see pressure drop curves  
Installation: Horizontal orientation recommended  
Casing Spud Connections: External straight threads according to ANSI/ASME B1.20.1. See Dimensions, Connections and Weights (Table 2) for details.  
Standard Accessories: Each meter is supplied with meter coupling (tailpiece) sets; includes 2 couplings and 2 gaskets

**OPTIONAL PULSE/REED SWITCH OUTPUT:**

The pulse emitter consists of a plastic housing with a reed switch that is closed when a magnet mounted on one of the meters register gears comes into its

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**Table 1- Operating Characteristics**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Max. Flow GPM (m³/hr)</th>
<th>Nom. Flow GPM (m³/hr)</th>
<th>Min. Flow GPM (m³/hr)</th>
<th>Normal Test Flow Limits GPM (m³/hr)</th>
<th>Min. Reading Gallons (m³/hr)</th>
<th>Max. Reading Gallons (m³/hr)</th>
<th>Pulse Output Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLXC-C1-15D</td>
<td>1/2”</td>
<td>13.20 (3.0)</td>
<td>7.50 (1.7)</td>
<td>0.13 (.03)</td>
<td>1-13.2 (0.23-3.0)</td>
<td>0.01 (0.0001)</td>
<td>9999999 (99999)</td>
<td>1P/1 or 10Gal 1 P/10 Liters</td>
</tr>
<tr>
<td>CLXC-C1-20D</td>
<td>3/4”</td>
<td>22 (5.0)</td>
<td>11.00 (2.5)</td>
<td>0.22 (0.05)</td>
<td>1-22 (0.23-5.0)</td>
<td>0.01 (0.0001)</td>
<td>9999999 (99999)</td>
<td>1P/1 or 10Gal 1 P/10 Liters</td>
</tr>
</tbody>
</table>

A 1.5 meter (59”) length of 2-conductor wire 3.5 mm inch diameter is standard. One conductor has red insulation and one has black.

Max Voltage: 24V AC/DC  
Max Current: 0.01 A  
Output Bounce Time: 0.01 second
DIMENSIONS, CONNECTIONS, ACCURACY, PRESSURE DROP

Table 2 - Dimensions, Connections & Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>L</th>
<th>L1</th>
<th>W</th>
<th>H</th>
<th>H1</th>
<th>D</th>
<th>d</th>
<th>Weight W/O Couplings</th>
<th>Weight W/Couplings</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLXC-C1-15D</td>
<td>1/2&quot;</td>
<td>4.33 (110)</td>
<td>8.03 (204)</td>
<td>3.15 (80)</td>
<td>2.83 (72)</td>
<td>5.63 (143)</td>
<td>3/4&quot;</td>
<td>1/2&quot; NPT</td>
<td>1.32 (0.6)</td>
<td>1.72 (0.78)</td>
</tr>
<tr>
<td>CLXC-C1-20D</td>
<td>3/4&quot;</td>
<td>5.12 (130)</td>
<td>9.21 (234)</td>
<td>3.15 (80)</td>
<td>2.83 (72)</td>
<td>5.63 (143)</td>
<td>1&quot;</td>
<td>3/4&quot; NPT</td>
<td>1.54 (0.70)</td>
<td>2.16 (0.98)</td>
</tr>
</tbody>
</table>

ORDERING INFORMATION
CLXC-C1-A-B-C-D-E
EXAMPLE: CLXC-20D-S

<table>
<thead>
<tr>
<th>A Meter Size</th>
<th>B Hot or Cold water Meter</th>
<th>C Pulse Output</th>
<th>D Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>15D= 1/2&quot;</td>
<td>C= Cold</td>
<td>—= None</td>
<td>— Gallons</td>
</tr>
<tr>
<td>20D= 3/4&quot;</td>
<td>H=Hot</td>
<td>5= 1 Pulse per Gal</td>
<td>CM= Cubic meters</td>
</tr>
<tr>
<td>S10= 1 Pulse per 10 Gal</td>
<td>S10L= 1 Pulse per 10 Liters (0.1 m³)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Each unit is shipped with a set of two couplings and gaskets

TWO PIECE METER COUPLINGS (TAILPIECES)

<table>
<thead>
<tr>
<th>Coupling Part Number</th>
<th>Description</th>
<th>Material</th>
<th>Length of Coupling</th>
<th>Used With Meter Model</th>
<th>Qty needed per meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>C15T-C1</td>
<td>3/4&quot; NPS female nut to 1/2&quot; NPT male union; includes 2 couplings and 2 gaskets</td>
<td>CuZn40Pb2</td>
<td>2-3/8&quot;</td>
<td>CLXC-15D</td>
<td>1</td>
</tr>
<tr>
<td>C20T-C1</td>
<td>1&quot; NPS female nut to 3/4&quot; NPT male union includes 2 couplings and 2 gaskets</td>
<td>CuZn40Pb2</td>
<td>2-1/2&quot;</td>
<td>CLXC-20D</td>
<td>1</td>
</tr>
</tbody>
</table>