**Series LCR10 & LCR20**

**Circular Chart Recorders**
Single and Dual Pen, Rotation Speeds and Recording Times

The Series LCR10 & LCR20 Circular Chart Recorders are two series of circular chart recorders with single and dual pen options. The LCR10 is a single pen recorder and the LCR20 is a dual pen. They can be easily programmed for any of six different thermocouple types, 100 ohm platinum DIN RTDs, or process inputs.

**Features/Benefits**
- Uses large 10˝ (254 mm) circular chart to easily read data
- Available with dual pen inputs

**Applications**
- Water level monitoring in water treatment
- Temperature/humidity in wood drying
- Room pressure monitoring in clean room applications

**SPECIFICATIONS**
- **Ranges:** Thermocouple: Type J, K, T, R, S, B; RTD: 100 Ω platinum DIN curve (0.00385Ω per Ω per °C); Process: 0 to 5 VDC, 250 Ω impedance, 4 to 20 mA across 250 Ω.
- **Chart Size:** 10˝ (254 mm).
- **Accuracy:** ±0.5% of span (100 division span).
- **Output Relay:** Form C (DPDT), 1A @ 240 VAC resistive.
- **Chart Speed:** Programmable 4, 8, 12, 24, 48, 72, 168 hour rotation (168 hours=7 days).

**Accessories**
- **Model Description**
  - **HTDL-DS**
  - **ER1425S-HT**

**Model Chart**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rotation</th>
<th>Pen Inputs</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCR10-101</td>
<td>Counter-clockwise</td>
<td>Single</td>
<td>No</td>
</tr>
<tr>
<td>LCR10-111</td>
<td>Counter-clockwise</td>
<td>Single</td>
<td>No</td>
</tr>
<tr>
<td>LCR20-101</td>
<td>Counter-clockwise</td>
<td>Dual</td>
<td>No</td>
</tr>
<tr>
<td>LCR20-111</td>
<td>Counter-clockwise</td>
<td>Dual</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Model HTDL-20/30**

**High Temperature Data Logger**
Submersible, Continuous Recording, User Replaceable Battery

The Model HTDL-20/30 High Temperature Data Logger can measure temperatures up to 500°F (260°C) and record up to 32,700 measurements.

**Features/Benefits**
- Submersible and portable
- Temperature measurement up to 500°F
- Remote probe option for chamber or oven logging
- Delay startup timer

**Applications**
- Temperature monitoring in industrial processes
- Process monitoring or troubleshooting

**SPECIFICATIONS**
- **Range:** -328 to 500°F (-200 to 260°C).
- **Memory Size:** 32,700 readings.
- **Accuracy:** 0.18°F (0.1°C) @ 68 to 284°F (20 to 140°C); 0.54°F (0.3°C) @ -4 to 67.98°F (-20 to 19.99°C).
- **Resolution:** 0.02°F (0.01°C).
- **Temperature Limits:** -4 to 284°F (-20 to 140°C).
- **Sampling Method:** Stop on memory full or continuous recording.
- **Sampling Rate:** Selectable from 1 s to 24 hrs.

**Accessories**
- **Model Description**
  - **HTDL-DS**
  - **ER1425S-HT**

**Model Chart**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTDL-20</td>
<td>High temperature data logger with 2˝ rigid probe</td>
</tr>
<tr>
<td>HTDL-30</td>
<td>High temperature data logger with 24˝ flexible probe</td>
</tr>
</tbody>
</table>

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