**MLG-DT Series** combines a Hall effect sensor and signal conditioner into a single package for use in DC current applications up to 400A. The MLG-DT unipolar and bipolar models have jumper selectable current input ranges and industry standard 0–20mA, 4–20mA, 0–5VDC or 0–10VDC outputs. Available in split-core or solid-core enclosures.

**FEATURES**

- **Single Range or Three Jumper Selectable Ranges**
  - Reduces set-up time
  - Reduces inventory
  - Eliminates zero and span pots

- **Isolation**
  - Output is magnetically isolated from the input for safety
  - Eliminates insertion loss (voltage drop)

- **Internal Power Regulation**
  - Works well, even with unregulated power
  - Cuts installation cost

- **Split-core Design/Built-in Mounting Brackets**
  - Makes installation a snap

**APPLICATIONS**

- Current direction arrow on CT
- LOAD
- SOURCE
- DTS DC

**CONNECTIONS**

- 120 VAC or 24 VAC / DC
- Output loop is powered by MLG-DT Sensor.
- No Loop Power Supply required.

- 1(–) 2(+) 3(–) 4(+)
- Power
- Output

**Unipolar Output**

- Load Current Amps: 0% to 100%
- 4 mA to 12 mA

**Bipolar Output**

- Load Current Amps: 0% to 100%
- 4 mA to 12 mA

Technical details subject to change

Call Toll Free: 1-877-PQ-SOLNS (1-877-777-6567) or 303-805-5252 email: info@measurlogic.com

MEASURLOGIC www.measurlogic.com
**SPECIFICATIONS**

**Output Signal**
- 0–20mA, 4–20mA, 0–5VDC, 0–10VDC

**Output Limit**
- 0–20mA, 4–20mA, 23mA
- 0–5VDC: 5.75VDC
- 0–10VDC: 11.5VDC

**Accuracy**
- Solid-core: 1% FS
- Split-core: 2% FS

**Repeatability** 1.0% FS

**Response Time**
- Solid-core: 20ms (to 90% of step change)
- Split-core: 100ms (to 90% of step change)

**Frequency Range - DC**

**Power Supply**
- 120VAC
- 24VAC/DC, 2VA max.

**Power Consumption**
- 2VA

**Loading**
- 0–20mA, 4–20mA: 500Ω max
- 0–5VDC: 25kΩ min.
- 0–10VDC: 50kΩ min.

**Isolation Voltage**
3kV (monitored line to output)

**Linearity**
0.75% FS

**Current Ranges**
- Field Selectable Ranges from 0–400A

**Sensing Aperture**
- FL Case: 0.75” (19.1mm) dia.
- SP Case: 0.85” (21.6mm) sq.

**Case**
UL94 V0 Flammability Rated

**Environmental**
-4 to 122°F (-20 to 50°C), 0–95% RH, non-condensing

**Listings**
UL 508 Industrial Control Equipment (USA & Canada), CE

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**MODEL NUMBER BUILDER**

**MLG-DT**

**Full Scale Range**

<table>
<thead>
<tr>
<th>a</th>
<th>0 = 5, 10, 20A*</th>
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<tbody>
<tr>
<td>1</td>
<td>50, 75, 100A</td>
</tr>
<tr>
<td>2</td>
<td>100, 150, 200A</td>
</tr>
<tr>
<td>3</td>
<td>150, 225, 300A</td>
</tr>
<tr>
<td>4</td>
<td>200, 300, 400A</td>
</tr>
<tr>
<td>C</td>
<td>Custom Range</td>
</tr>
</tbody>
</table>

**Output Signal**

<table>
<thead>
<tr>
<th>b</th>
<th>020 = 0–20mA</th>
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<tbody>
<tr>
<td>420</td>
<td>4–20mA</td>
</tr>
<tr>
<td>003</td>
<td>0–3VDC</td>
</tr>
<tr>
<td>005</td>
<td>0–5VDC</td>
</tr>
<tr>
<td>010</td>
<td>10VDC</td>
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</table>

**Power Supply**

<table>
<thead>
<tr>
<th>c</th>
<th>24U = +24VAC/DC</th>
</tr>
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<tbody>
<tr>
<td>120</td>
<td>= 120VAC **</td>
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</table>

**Output Polarity**

<table>
<thead>
<tr>
<th>d</th>
<th>U = Unipolar</th>
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<tbody>
<tr>
<td>BP</td>
<td>Bipolar</td>
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</table>

**Case**

<table>
<thead>
<tr>
<th>e</th>
<th>FL = Solid-core</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP</td>
<td>Split-core</td>
</tr>
</tbody>
</table>

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**DIMENSIONS**

<table>
<thead>
<tr>
<th>FL Case</th>
<th>SP Case</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.38&quot;</td>
<td>3.64&quot;</td>
</tr>
<tr>
<td>1.50&quot;</td>
<td>1.18&quot;</td>
</tr>
<tr>
<td>38.1mm</td>
<td>30mm</td>
</tr>
<tr>
<td>2.90&quot;</td>
<td>3.04&quot;</td>
</tr>
<tr>
<td>75.7mm</td>
<td>77.2mm</td>
</tr>
<tr>
<td>0.45&quot;</td>
<td>0.45&quot;</td>
</tr>
<tr>
<td>11.4mm</td>
<td>11.4mm</td>
</tr>
<tr>
<td>0.75&quot;</td>
<td>0.75&quot;</td>
</tr>
<tr>
<td>19.1mm</td>
<td>21.7mm</td>
</tr>
</tbody>
</table>

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**Recommended Model Numbers**

(That work well with the DTS DC Meter)

**MLG-DT 2 - 420 - 24U - BP - SP**
- 0 - 100, 150, 200A Range
- 4–20mA Bipolar Output
- +24VAC/DC Powered
- Split-core DC Hall Effect Sensor

**MLG-DT 1 - 420 - 24U - U - SP**
- 0 - 50, 75, 100A Range
- 4–20mA Unipolar Output
- +24VAC/DC Powered
- Split-core DC Hall Effect Sensor

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**Distributor:**

Call Toll Free: 877-PQ-SOLNS (877-777-6567)
Fax (425) 799-4780
email: info@measurlogic.com

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**www.measurlogic.com**

*Model dependent*

Technical details subject to change