ALUMINUM “S” BEAM LOAD CELLS
HIGH ACCURACY, ECONOMICAL PRICE
STANDARD AND METRIC MODELS

Tension/Compression
Calibrated in Tension
0-25 lb to 0-1000 lb
0-11 kgf to 0-455 kgf

LC105/LCM105 Series
LC115/LCM115 Series

✓ Aluminum—for Light Weight and Durability
✓ 5-Point Calibration Provided (in Tension)

SPECIFICATIONS
Excitation: 10 Vdc, 15 Vdc maximum
Output: 3 mV/V ±0.0075 mV/V
Linearity: ±0.03% FSO
Hysteresis:
±0.05% FSO (≤ 250 lbs or 100 kgf)
±0.02% FSO (> 250 lbs or 100 kgf)
Repeatability: ±0.01% FSO
Zero Balance: ±1% FSO
Operating Temp Range: -40 to 93°C (-40 to 200°F)
Compensated Temp Range: 17 to 71°C (60 to 160°F)
Thermal Effects:
Zero: 0.002% FSO/°C
Span: 0.002% rdg/°C

Safe Overload: 150% of capacity
Ultimate Overload: 300% of capacity
Bridge Resistance: 350 ± 5 Ω
Full Scale Deflection: 0.25 to 0.50 mm (0.010 to 0.020”)
Construction: Aluminum
Electrical (4-Conductor Shielded Cable):
≤100 kgf/200 lb: 9 m (30’) 24 AWG
>100 kgf/200 lb: 9 m (30’) 20 AWG
LC115 Mating Connector:
PT06F10-6S-R (sold separately)
LC115 Cable Assembly with Twist-Lock Connector:
CA-4PC24-2-015 (sold separately)
Protection Class: IP65

Low ranges standard/metric
LC105-25 shown actual size.

High ranges standard/metric
LC105-500 shown actual size.
Low Ranges

RANGES ≤100 kgf
≤200 lb

ø = diameter

9 m (30’)
4-Conductor PVC
Shielded Cable

Dimensions: mm (inch)

High Ranges

RANGES >100 kgf
>200 lb

 ø38
(1.50)

1⁄4-20 UNC–2B
or metric m6
Both Ends

Dimensions: mm (inch)

<table>
<thead>
<tr>
<th>Capacity</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 to 1000 (lb)</td>
<td>1⁄2-20 UNF</td>
<td>32</td>
<td>25</td>
<td>51</td>
<td>76</td>
<td>0.5 (1.1)</td>
</tr>
<tr>
<td>250 to 500 (kgf)</td>
<td>M12 x 1.75-6H</td>
<td>32</td>
<td>25</td>
<td>51</td>
<td>76</td>
<td>0.5 (1.1)</td>
</tr>
</tbody>
</table>

Electrical Wiring

-10 Vdc

Red

Black

Green

White

Meter

Load Cell
## ALUMINUM “S” BEAM LOAD CELLS
### HIGH ACCURACY, ECONOMICAL PRICE
#### STANDARD AND METRIC MODELS

### To Order

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Cable† Model No.</th>
<th>Compatible Meters* Model No.</th>
<th>Load Button</th>
<th>Rod End</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb</td>
<td>kgf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>11</td>
<td>LC105-25</td>
<td>DPiS, DP41-S, DP25B-S</td>
<td>—</td>
</tr>
<tr>
<td>50</td>
<td>23</td>
<td>LC105-50</td>
<td>DPiS, DP41-S, DP25B-S</td>
<td>—</td>
</tr>
<tr>
<td>100</td>
<td>45</td>
<td>LC105-100</td>
<td>DPiS, DP41-S, DP25B-S</td>
<td>—</td>
</tr>
<tr>
<td>200</td>
<td>91</td>
<td>LC105-200</td>
<td>DPiS, DP41-S, DP25B-S</td>
<td>—</td>
</tr>
<tr>
<td>250</td>
<td>114</td>
<td>LC105-250†</td>
<td>DPiS, DP41-S, DP25B-S</td>
<td>LBC-012</td>
</tr>
<tr>
<td>500</td>
<td>227</td>
<td>LC105-500†</td>
<td>DPiS, DP41-S, DP25B-S</td>
<td>LBC-012</td>
</tr>
<tr>
<td>1000</td>
<td>455</td>
<td>LC105-1K†</td>
<td>DPiS, DP41-S, DP25B-S</td>
<td>LBC-012</td>
</tr>
</tbody>
</table>

#### METRIC MODELS

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Cable† Model No.</th>
<th>Compatible Meters* Model No.</th>
<th>Load Button</th>
<th>Rod End</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>10</td>
<td>LCM105-10</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>MLBC-M6</td>
</tr>
<tr>
<td>55</td>
<td>25</td>
<td>LCM105-25</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>MLBC-M6</td>
</tr>
<tr>
<td>110</td>
<td>50</td>
<td>LCM105-50</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>MLBC-M6</td>
</tr>
<tr>
<td>220</td>
<td>100</td>
<td>LCM105-100</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>MLBC-M6</td>
</tr>
<tr>
<td>551</td>
<td>250</td>
<td>LCM105-250†</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>MLBC-M12</td>
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<tr>
<td>1102</td>
<td>500</td>
<td>LCM105-500†</td>
<td>DP41-B, DP41-S, DP25B-S</td>
<td>MLBC-M12</td>
</tr>
</tbody>
</table>

Comes complete with 5-point NIST-traceable calibration and 59 kΩ shunt data.

* Visit us online for compatible meters.

† Connector style available: change model number from LC105 to LC115, or from LCM105 to LCM115, no additional charge.

### Accessories

<table>
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<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>PT06F10-6S-R</td>
<td>Mating connector for LC115/LCM115 series load cells</td>
</tr>
<tr>
<td>CA-4PC24-2-015</td>
<td>Cable assembly with twist lock connector for LC115/LCM115 series load cells</td>
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</table>

### ⅛ DIN STRAIN METERS WITH OPTIONAL RELAYS AND ANALOG OUTPUT

#### DP25B Series

- Relay Output with Adjustable Deadband
- Isolated or Non-Isolated Analog Output
- Totally Programmable Color Display
- Low-Voltage Power Options

The OMEGA™ DP25B Series meters have the biggest, brightest display of any ⅛ DIN panel meter. The user can select the display color: RED, AMBER, or GREEN.

Along with the 4-digit, 9-segment display, these low-cost panel meters/controllers provide unparalleled accuracy in signal conditioning. Additional features include microprocessor-based operation; dual 5 A SPDT relays (optional); and isolated or non-isolated analog output in ranges of 0 to 10 Vdc, 0 to 20 mA, or 4 to 20 mA, which can be used for retransmission of the display value or as a proportional control output.

Because they accept a wide range of DC voltage and current inputs, the DP25B-E strain meters can handle most process and strain applications. Features include easy front-panel scaling to virtually any engineering units, a remote tare function for weighing applications, and a hardware lockout to prevent unauthorized changes in setup. In addition, the DP25B-E meters feature built-in excitation in 4 user-selectable voltages, which makes them compatible with most transducers and transmitters.