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**PT Ltd.**  
Innovative Measurement Electronics

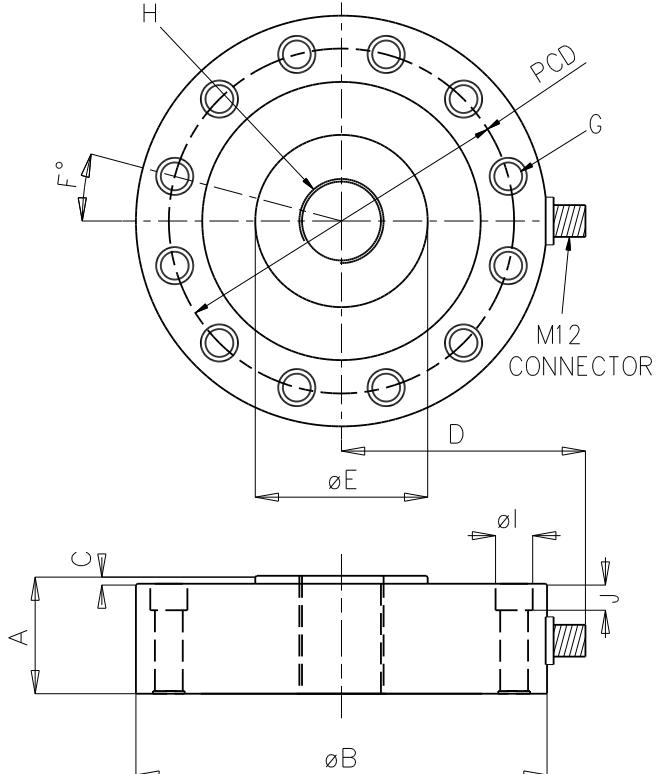


*...a world of excellence!*

# LPCH

## UNIVERSAL TENSION/COMPRESSION

- High accuracy alloy steel construction
- Ideal for materials testing, overhead and low profile weighing.
- Rugged with high overload capacity
- Standard mountings-replaces LPC and other market leaders
- Recessed holes for flush mounting
- Standard IP67 M12 sensor connector



### Dimensions

| Capacity | Order          | A    | B   | C   | D   | E   | F      | G                        | H           | ØI   | J   | Weight |
|----------|----------------|------|-----|-----|-----|-----|--------|--------------------------|-------------|------|-----|--------|
| 1t       | LPM1000T000XX1 | 35   | 105 | 3   | 65  | 32  | 22.5°  | 8 Holes Ø7.2 PCD 88.5    | 5/8"-18UNF  | 10.5 | 8.5 | 1.6    |
| 2.5t     | LPM2500T000XX1 | 35   | 105 | 3   | 65  | 32  | 22.5°  | 8 Holes Ø7.2 PCD 88.5    | 5/8"-18UNF  | 10.5 | 8.5 | 1.6    |
| 5t       | LPM5000T000XX1 | 35   | 105 | 3   | 65  | 32  | 22.5°  | 8 Holes Ø7.2 PCD 88.5    | 5/8"-18UNF  | 10.5 | 8.5 | 1.6    |
| 10t      | LPM010TT000XX1 | 44.5 | 155 | 3   | 90  | 65  | 15°    | 12 Holes Ø10.5 PCD 130.2 | 1-1/4"-12UN | 17   | 10  | 4.7    |
| 25t      | LPM025TT000XX1 | 44.5 | 155 | 3   | 90  | 65  | 15°    | 12 Holes Ø10.5 PCD 130.2 | 1-1/4"-12UN | 17   | 10  | 4.7    |
| 50t      | LPM050TT000XX1 | 63.5 | 205 | 6.5 | 115 | 95  | 11.25° | 16 Holes Ø13.5 PCD 165.1 | 1-3/4"-12UN | 20   | 13  | 11.7   |
| 100t     | LPM100TT000XX1 | 90   | 280 | 13  | 152 | 125 | 11.25° | 16 Holes Ø17.5 PCD 228.6 | 2-3/4"-8UN  | 25   | 16  | 29.5   |

NOTE: dimensions are in mm/kg. LPCH supplied with straight mating connector without cable. Specifications with factory fitted base.

### Specifications

|                                       |                |                               |                            |
|---------------------------------------|----------------|-------------------------------|----------------------------|
| Signal Output at Capacity.....        | 2±0.01 mV/V    | Service Load.....             | 100% Capacity              |
| Linearity Error.....                  | < 0.020% FSO   | Safe Load.....                | 150% Capacity              |
| Non-Repeatability.....                | < 0.020% FSO   | Safe Side Load.....           | 100% of axial load         |
| Combined Error.....                   | < 0.030% FSO   | Ultimate Load.....            | 300% Capacity              |
| Hysteresis.....                       | < 0.020% FSO   | Input Resistance.....         | 750Ω ± 5Ω                  |
| Creep/(30 mins.).....                 | < 0.020% FSO   | Output Resistance.....        | 700Ω ± 3Ω                  |
| Zero Balance.....                     | < 2 % Capacity | Insulation Resistance.....    | > 5000 MΩ (@50 VDC)        |
| Temperature Effect on Span/(10C)..... | < 0.02% FSO    | Excitation Voltage(Rec).....  | 5~15 V AC/DC               |
| Temperature Effect on Zero/(10C)..... | < 0.02% FSO    | Excitation Voltage(Max.)..... | 20 V AC/DC                 |
| Operating Temperature Range.....      | -35 ~ 65 C     | Connector.....                | M12 Sensor type..          |
| Compensated Temperature Range.....    | -10 ~ 50 C     | Material.....                 | Alloy steel, nickel plated |
| Storage Temperature Range.....        | -50 ~ 85 C     | Sealing.....                  | IP67                       |
| Excitation +ve.....                   | Pin 1          | Signal +ve.....               | Pin 4                      |
| Excitation -ve.....                   | Pin 2          | Signal -ve.....               | Pin 3                      |

R91020



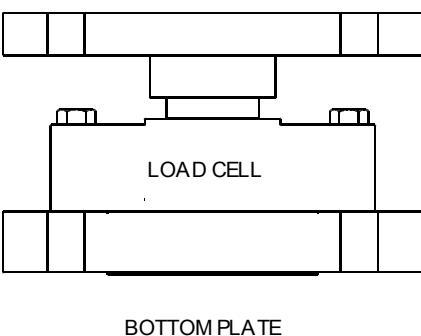
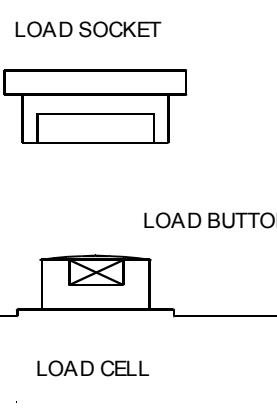
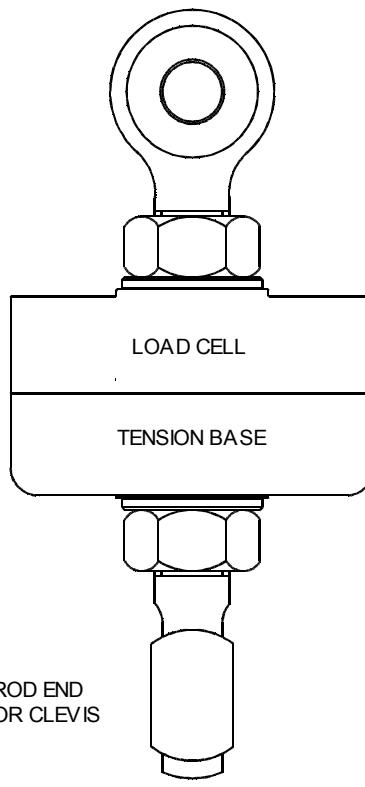
<http://www.pt-global.com>





## LPCH ACCESSORIES

PT offers a range of accessories for the LPCH series load cells

| Complete Mount                                                                                                                                                                  | Load Button and Load Socket                                                                                                                                   | Rod Ends and Tension Base                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>TOP PLATE (includes socket)</b></p> <p><b>LOAD CELL</b></p> <p><b>BOTTOM PLATE</b></p> |  <p><b>LOAD SOCKET</b></p> <p><b>LOAD BUTTON</b></p> <p><b>LOAD CELL</b></p> |  <p><b>LOAD CELL</b></p> <p><b>TENSION BASE</b></p> <p><b>ROD END OR CLEVIS</b></p> |

| Capacity | Mount     | Capacity | Button    | Socket  | Capacity | Rod End       | Base     |
|----------|-----------|----------|-----------|---------|----------|---------------|----------|
| 1t       | M-LPC-5   | 1t~2.5t  | A-LB0.625 | A-LS50  | 1t~2.5t  | A-RE0.625-2N  | A-TB-5   |
| 5t       | M-LPC-5   | 5t       | A-LB0.625 | A-LS50  | 5t       | A-RE0.625-5N  | A-TB-5   |
| 10t      | M-LPC-25  | 10t      | A-LB1.250 | A-LS75  | 10t      | A-RE1.250-10N | A-TB-25  |
| 25t      | M-LPC-25  | 25t      | A-LB1.250 | A-LS75  | 25t      | A-RE1.250-25N | A-TB-25  |
| 50t      | M-LPC-50  | 50t      | A-LB1.750 | A-LS100 | 50t      | A-RE1.750-N   | A-TB-50  |
| 100t     | M-LPC-100 | 100t     | A-LB2.750 | A-LS150 | 100t     | A-RE2.750-N   | A-TB-100 |

The Load Buttons and Load Sockets are nickel plated tool steel, the mount plates are painted mild steel.

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Note: A-RE1.750-N and A-RE2.750-N are clevises.  
All items are high strength steel. Rod Ends and bolts are zinc/nickel plated and the Tension Base is nickel plated.

The LPCH is fitted with an industry standard M12 sensor connector with IP67 sealing and is supplied with a straight mating connector. The connector simplifies installation and maintenance and a cable type and length to suit the requirements of the installation can be selected from the cable packs offered by PT. Six wire cables should be installed by connecting the Sense+ with the Excitation+ to terminal 1 and the Sense- with the Excitation- to terminal 2 inside the connector.

### PT Cable Packs for the LPCH

| Cable Length       | 5.5mm, 6core PE/PVC foil screened                                                                                                             | 6.5mm, 6core PE/PU foil screened                                                                                                     | 7.5mm, 6core PE/PU braid screened                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 10m<br>50m<br>100m | A-6C5.5-0010<br>A-6C5.5-0050<br>A-6C5.5-0100<br><br>Standard cable with moisture resistant polyethylene wire insulation and PVC outer sheath. | A-6C6.5-0010<br>A-6C6.5-0050<br>A-6C6.5-0100<br><br>Improved durability and moisture resistance with polyurethane (PU) outer sheath. | A-6C7.5-0010<br>A-6C7.5-0050<br>A-6C7.5-0100<br><br>Maximum durability and moisture resistance with extra thick PU sheath and braid screen. |

