Model LPC

LOW PROFILE UNIVERSAL LOAD CELL



A popular industry standard, universal low profile high accuracy load cell.

Compact in design, the LPC is eccentric load compensated, and temperature compensated -10 to 50° C.

Available in 7 different capacities from 1t to 100t.

Fully environmentally sealed and supplied with quality 6 core PVC screened cable.

Constructed in tool steel and corrosion resistant electroless nickel plated finish. The LPC directly replaces many International standard models and has a wide range of mounting accessories for both compression and tension applications.

Supplied with quality 6 core PVC screened cable.

Standard compression and tension accessories allow simple installation and enhanced lifelong accuracy.

APPLICATIONS

- Materials testing in compression or tension
- High capacity tension weighing, overhead weighing, cranes etc
- Low profile is idea for compression weighing of hoppers, tanks & silo weighers

FEATURES

- Low profile
- 0.05% accuracy
- Large capacity range It ~ 100t
- Comprehensive mounting accessory packages

Specifications

Note: All specifications are a maximum, as a % (\pm) of full load, unless otherwise stated.

| Nominal Capacity | It ∼I00t |
|---------------------------------|------------------------|
| Signal Output at Capacity | $2mV/V \pm 0.1\%$ |
| Linearity Error | < 0.05% FSO |
| Non-Repeatability | < 0.02% FSO |
| Combined Error | < 0.05% FSO |
| Hysteresis | < 0.05% FSO |
| Creep/Zero Return (30 mins) | < 0.03% FSO |
| Zero Balance | < 2.00% Capacity |
| Temperature Effect on Span/10°C | < 0.02% FSO |
| Temperature Effect on Zero/10°C | < 0.025% Capacity |
| Compensated Temperature Range | 10 ~ 50°C |
| Operating Temperature Range | -30 ∼ 70°C |
| Service Load | 100% of Rated Capacit |
| Safe Load | I 50% of Rated Capacit |
| | |

| Ultimate Load | | 300% of Rated Capacity |
|---------------------------------|-----------|--|
| Input Resistance | | 820Ω Nominal |
| Output Resistance | | 705Ω Nominal |
| Insulation Resistance (bridge t | o ground) | > 5000 MΩ at 100V DC |
| Insulation Resistance (cable to | ground) | $>$ 1000 M Ω at 100V DC |
| Excitation Voltage (Recomme | nded) | 5 ~ 20V AC/DC |
| Excitation Voltage (Maximum |) | 25V AC/DC |
| Storage Temperature Range | | 50 ~ 70°C |
| Cable Type | | 5.5mm, Screened, PVC Sheath |
| | | 6 Core x 0.24mm ² (24 AWG) |
| Cable Length | 3 Metres | $(1t \sim 5t)$ 5 Metres $(10t \sim 25t)$ |
| | | 10 Metres (50t ~ 100t) |
| Material | | Tool steel |
| Finish | | Flectroless Nickel Plated |



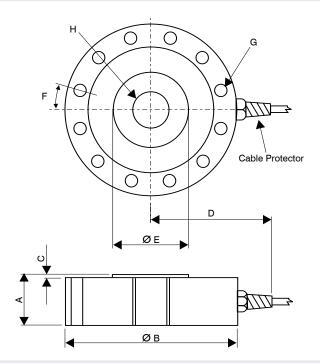




Ordering Information

A full range of optional accessories is available, please contact us for further details. Detailed dimension drawings for the accessories are available at our web site.

| MODEL Part Number | ACCESSORIES | Part Number | r | | | CABLES PACK | S Part Number |
|-------------------------|-------------------------------|--------------|-----------|-----------------------|--------------|----------------------|----------------|
| LPC-It LPMI000T000XXX | | It ~ 5t | 10t ~ 25t | 50t | I 00t | Junction box to indi | icator runs. |
| LPC-2.5t LPM2500T000XXX | Load Button | A-LB0.625 | A-LB1.250 | A-LB1.750 | A-LB2.750 | Available by the me | etre. |
| LPC-5t LPM5000T000XXX | Load Socket | A-LS50 | A-LS75 | A-LS100 | A-LS150 | 10 Metres | A-6C5.5-0010 |
| LPC-10t LPM010TT000XXX | Tension Base | A-TB-5 | A-TB-25 | A-TB-50 | A-TB-100 | 50 Metres | A-6C5.5-0050 |
| LPC-25t LPM025TT000XXX | Mounting Set | M-LPC-5 | M-LPC-25 | M-LPC-50 | M-LPC-100 | 100 Metres | A-6C5.5-0100 |
| LPC-50t LPM050TT000XXX | | It ~ 2.5t | 5t | I | 0t | Cable Joint Kit | A-CAB-JOINTSTD |
| LPC-100t LPM100TT000XXX | C-100t LPM100TT000XXX Rod End | | N A-RE0-6 | 25-5N A | -RE1-250-10N | | |
| | | 25t | 50t | I | 00t | | |
| | | A-REI-250-25 | N A-REI-7 | A-REI-750N A-RE2-750N | | | |



| Load Cell Dimensions | | | | | | | | | | |
|--|------|-----|-----|-----|-----|--------|----------|------------------|-----------------|--------|
| | Α | В | С | D | E | F | G | ; | н | Weight |
| lt | 35 | 105 | 3 | 95 | 35 | 22.5° | 8 Holes | Ø 6.5 PCD 88.9 | 5/8" –18tpi UNF | 1.6 |
| 2.5t | 35 | 105 | 3 | 95 | 35 | 22.5° | 8 Holes | Ø 6.5 PCD 88.9 | 5/8" –18tpi UNF | 1.6 |
| 5t | 35 | 105 | 3 | 95 | 35 | 22.5° | 8 Holes | Ø 6.5 PCD 88.9 | 5/8" –18tpi UNF | 1.6 |
| 10t | 44.5 | 155 | 3 | 125 | 65 | 15° | 12 Holes | Ø 10.5 PCD 130.2 | 1¼" –12tpi UNF | 4.7 |
| 25t | 44.5 | 155 | 3 | 125 | 65 | 15° | 12 Holes | Ø 10.5 PCD 130.2 | 1¼" –12tpi UNF | 4.7 |
| 50t | 63.5 | 205 | 6.5 | 145 | 95 | 11.25° | 16 Holes | Ø 13 PCD 165.1 | 1¾" –12tpi UNF | 11.7 |
| 100t | 90 | 280 | 13 | 185 | 125 | 11.25° | 16 Holes | Ø 17.5 PCD 228.6 | 2¾" – 8tpi UNF | 29.5 |
| Dimensions in mm unless otherwise shown Weight in kg | | | | | | | | | | |

Accessories

