

# Model PT2000

## LOW CAPACITY SINGLE POINT LOAD CELL



Our most popular single point model, used in high numbers in shop counter retail and bench scales.

The PT2000 is available in 9 capacities from 5kg to 100kg. Industry standard design allows interchange with many manufacturers models.

A popular cell for retail scale manufacture because of its generous platform size of 400mm x 400mm, also used extensively in belt conveyer and check weighing applications.

Protected with SURESEAL to IP66 the PT2000 is standard with overload protection facility built-in.

Marine grade anodised and designed to have low sensitivity to off-center loading it's a perfect load cell selection for the volume scale manufacturer.

### APPLICATIONS

- Low cost retail scales
- Low cost bench scales
- Hopper scales & net weighing scales

### FEATURES

- Marine grade anodised
- Protected with **SURESEAL™**
- Industry standard interchange design
- Generous platform sizes up to 400mm x 400mm
- Overload protection facility

### Specifications

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

|                                 |                        |                                  |  |
|---------------------------------|------------------------|----------------------------------|--|
| Nominal Capacity                | 5kg ~ 100kg            | Ultimate Load                    | 300% of Rated Capacity   |
| Signal Output at Capacity       | 2mV/V $\pm$ 10%        | Input Impedance                  | 425 $\Omega$ $\pm$ 15 $\Omega$                                     |
| Linearity Error                 | < 0.020% FSO           | Output Impedance                 | 350 $\Omega$ $\pm$ 3 $\Omega$                                      |
| Non-Repeatability               | < 0.010% FSO           | Insulation Impedance             | > 5000 M $\Omega$ at 100V DC                                       |
| Combined Error                  | < 0.025% FSO           | Excitation Voltage (Recommended) | 5 ~ 12V AC/DC  |
| Hysteresis                      | < 0.015% FSO           | Excitation Voltage (Maximum)     | 15V AC/DC  |
| Creep/Zero Return (30 mins)     | < 0.030% / 0.020% FSO  | Eccentric Loading (effect/cm)    | < 0.0074% FSO  |
| Zero Balance                    | < 3.000% Capacity      | Deflection at Rated Capacity     | < 0.4mm  |
| Temperature Effect on Span/10°C | < 0.010% FSO           | Storage Temperature Range        | -50 ~ 70°C   |
| Temperature Effect on Zero/10°C | < 0.015% Capacity      | Cable Type                       | 4mm, Screened, PVC Sheath<br>4 Core x 0.09mm <sup>2</sup> (28 AWG) |
| Compensated Temperature Range   | -10 ~ 40°C             | Cable Length                     | 2 Metres   |
| Operating Temperature Range     | -30 ~ 70°C             | Material                         | Aluminium  |
| Service Load                    | 100% of Rated Capacity | Finish                           | Marine Anodised  |
| Safe Load                       | 150% of Rated Capacity |                                  |  |

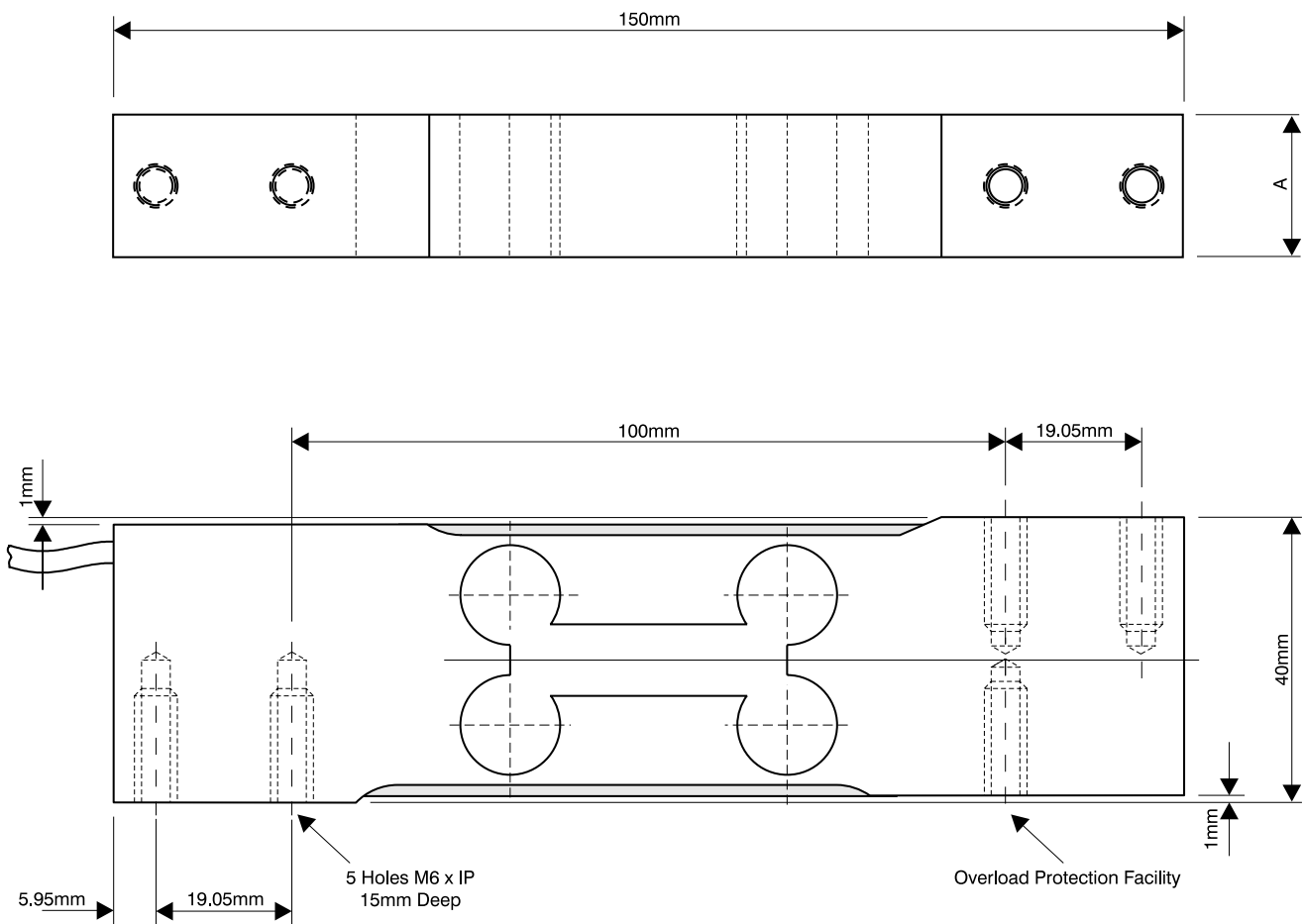


Manufactured in New Zealand

PT Limited®  
<http://www.ptglobal.com>

## Ordering Information

| MODEL       | Part Number    | MODEL        | Part Number    | CABLES PACKS  | Part Number    |
|-------------|----------------|--------------|----------------|---|----------------|
| PT2000-5kg  | 20M0005A000XXX | PT2000-30kg  | 20M0030A000XXX | Junction box to indicator runs. Available by the metre. |                |
| PT2000-7kg  | 20M0007A000XXX | PT2000-50kg  | 20M0050A000XXX | 10 Metres   | A-4C3.6-0010   |
| PT2000-10kg | 20M0010A000XXX | PT2000-75kg  | 20M0075A000XXX | 50 Metres   | A-4C3.6-0050   |
| PT2000-15kg | 20M0015A000XXX | PT2000-100kg | 20M0100A000XXX | 100 Metres  | A-4C3.6-0100   |
| PT2000-20kg | 20M0020A000XXX |              |                | Cable Joint Kit   | A-CAB-JOINTSTD |



### PT Cable Colour Code

|            |     |              |
|------------|-----|--------------|
| Excitation | +ve | <b>Red</b>   |
| Sense      | +ve | <b>Brown</b> |
| Excitation | -ve | <b>Black</b> |
| Sense      | -ve | <b>Blue</b>  |
| Signal     | +ve | <b>Green</b> |
| Signal     | -ve | <b>White</b> |

### Load Cell Dimensions

|   | 5kg ~ 7kg | 10kg ~ 30kg | 50kg ~ 100kg |
|---|-----------|-------------|--------------|
| <b>A</b>                                | 20        | 20          | 25           |
| <b>Weight</b>                           | 0.35      | 0.35        | 0.40         |
| <i>Dimensions in mm    Weight in kg</i> |           |             |              |