

Model AST

LOW COST S-TYPE LOAD CELL



A superb low cost weighing solution, yet surprisingly accurate with good long life features.

The AST is an S-Type tension load cell with M8 threads on the 100kg and 250kg, and M12 threads on the 500kg and 1t models.

This is one of the most cost effective S-Type tension cells available.

Robustly constructed in design with carefully selected high strength aircraft aluminium, it is an ideal selection for most industrial weighing applications.

Used extensively in the agricultural industry it has proved to be a rugged long life load cell. Marine grade anodised the AST has an excellent protection rating of IP67 and is backed by a three-year warranty.

Many of the metric accessories throughout our accessory range can be used with this model load cell.

APPLICATIONS

- Lower cost weighing applications
- Agricultural and harsh environments
- All general industrial weighing
- Both tension and compression

FEATURES

- Marine grade anodised finish
- Lower cost
- Compact size metric thread
- Can use many metric accessory options

Specifications

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

| | | | |
|---------------------------------|------------------------|--|--|
| Nominal Capacity | 100kg ~ 1t | Safe Load | 125% of Rated Capacity |
| Signal Output at Capacity | 2mV/V \pm 0.1% | Ultimate Load | 300% of Rated Capacity |
| Linearity Error | < 0.025% FSO | Input Resistance | 410 Ω Nominal |
| Non-Repeatability | < 0.020% FSO | Output Resistance | 352 Ω Nominal |
| Combined Error | < 0.030% FSO | Insulation Resistance (bridge to ground) | > 5000 M Ω at 100V DC |
| Hysteresis | < 0.020% FSO | Excitation Voltage (Recommended) | 5 ~ 12V AC/DC |
| Creep/Zero Return (30 mins) | < 0.050% / 0.035% FSO | Excitation Voltage (Maximum) | 15V AC/DC |
| Zero Balance | < 3.000% Capacity | Storage Temperature Range | -50 ~ 70°C |
| Temperature Effect on Span/10°C | < 0.015% FSO | Cable Type | 4.5mm, Screened, PUR Sheath 4 Core x 0.24mm ² (24 AWG) |
| Temperature Effect on Zero/10°C | < 0.020% Capacity | Cable Length | 3 Metres |
| Compensated Temperature Range | -10 ~ 40°C | Material | Aluminium |
| Operating Temperature Range | -30 ~ 70°C | Finish | Marine Anodised |
| Service Load | 100% of Rated Capacity | | |



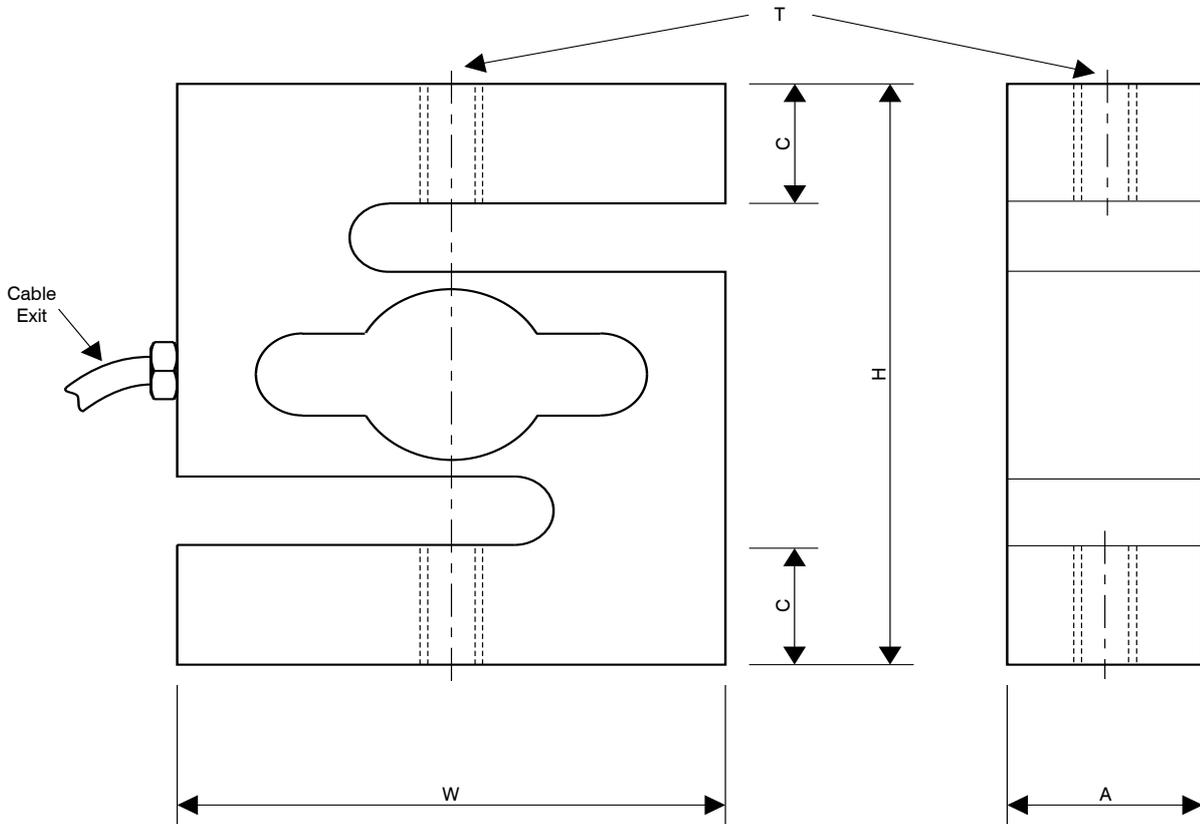
Manufactured in New Zealand

PT Limited®

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

Ordering Information

| MODEL | Part Number | ACCESSORIES | Part Number | CABLES PACKS | Part Number |
|-----------|----------------|-------------|----------------------|--------------|---|
| AST-100kg | ATM0100A000XXX | | 100kg ~ 250kg | | |
| AST-250kg | ATM0250A000XXX | Load Button | A-LBM8 | 500kg ~ 1t | Junction box to indicator runs. Available by the metre. |
| AST-500kg | ATM0500A000XXX | Load Socket | A-LS20 | | 10 Metres A-4C4.5-0010 |
| AST-1t | ATM1000A000XXX | Rod End | A-REM8N | | 50 Metres A-4C4.5-0050 |
| | | | | | 100 Metres A-4C4.5-0100 |
| | | | | | Cable Joint Kit A-CAB-JOINTSTD |

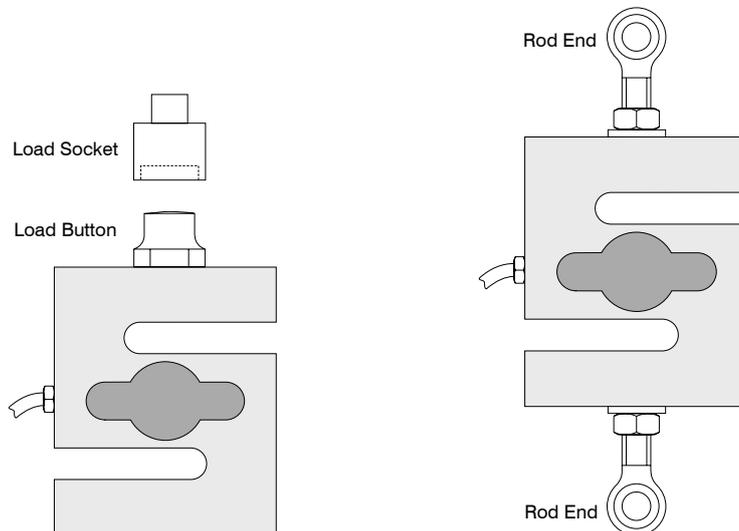


Load Cell Dimensions

| | A | C | H | T | W | Weight |
|--------------|----|------|----|-------------|----|--------|
| 100kg | 19 | 12.5 | 70 | M8 x 1.25P | 64 | 0.26 |
| 250kg | 19 | 12.5 | 70 | M8 x 1.25P | 64 | 0.26 |
| 500kg | 25 | 17.5 | 85 | M12 x 1.75P | 70 | 0.40 |
| 1t | 25 | 20 | 96 | M12 x 1.75P | 75 | 0.50 |

Dimensions in mm Weight in kg

Accessories



PT Cable Colour Code

| | | |
|------------|-----|--------------|
| Excitation | +ve | Red |
| Sense | +ve | Brown |
| Excitation | -ve | Black |
| Sense | -ve | Blue |
| Signal | +ve | Green |
| Signal | -ve | White |