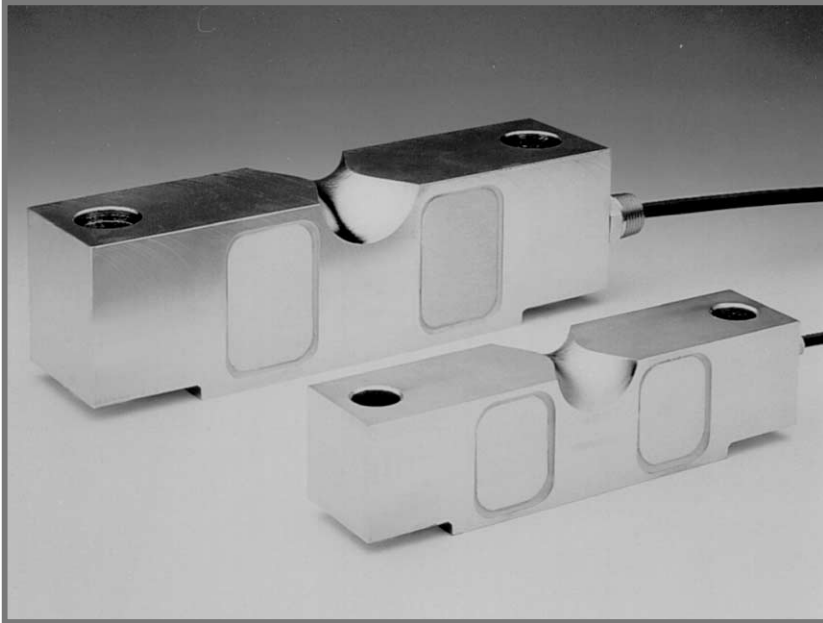


Double-Ended Shear Beam **LOAD CELL**

CDULT
Series



- Capacities 10,000lbs to 75,000lbs
- Sealed to IP67
- Robust Nickel Plated Steel Construction
- Low Profile for use on Silos and Tanks
- Matched Output Signals
- **3 YEAR WARRANTY**

Options Available

Different Cable Lengths

Full range of mounting options available, including
- Vessel/Silo Mounting Assembly
- Special Mounting Assemblies (on request)

500VAC Certification

BASEEFA Certification

DESCRIPTION

The CDULT is a double ended shear beam load cell designed for high capacity silo weighing applications.

This high accuracy load cell is designed to meet NTEP standards. When combined with suitable mounting arrangements, this load cell will provide a simple, accurate and reliable weighing system.

Nickel plating and full environmental sealing to IP67 assure long term reliability. For hazardous environments, this load cell has a EEx ia IIC T6 approved option.

When used in conjunction with the specially designed CDULT silo mount, the unit combines ease of installation with both side load and lift-off protection.

The CDULT outputs are closely matched to give an improved weighing accuracy. The load cell can be supplied with a wide range of instrumentation to complete the weighing system, giving outputs for control purposes.

The CDULT is supplied as standard with Applied Measurement's standard 3 Year Warranty.

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

3 MERCURY HOUSE - CALLEVA PARK - ALDERMASTON - BERKSHIRE - RG7 8PN - UK

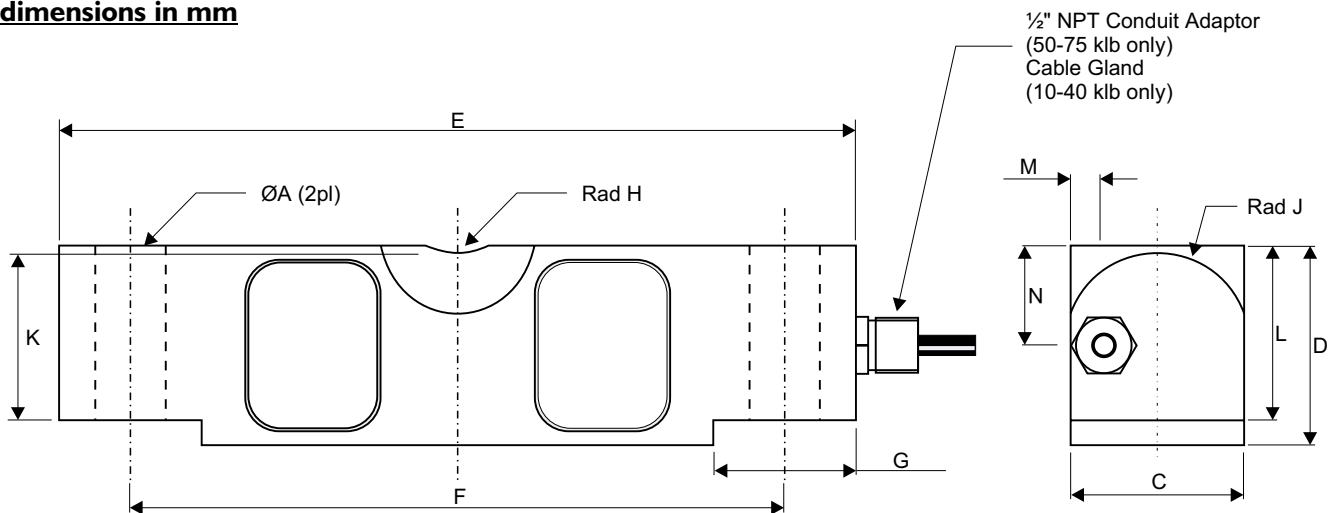
Tel: (+44) 0118 981 7339 Fax: (+44) 0118 981 9121 email: info@appmeas.co.uk Internet: www.appmeas.co.uk



SPECIFICATION

| CHARACTERISTICS | CDULT | UNITS |
|---------------------------------|---|------------------------------|
| Rated Capacities: | 10, 20, 25, 40, 50, 60 & 75. | klb |
| Rated Output: | $3.0 \pm 0.25\%$ | mV/V |
| Total Error (Accuracy): | 0.05 | $\pm\%$ of Applied Load |
| Zero Return after 30 mins: | 0.050 | $\pm\%$ of Applied Load |
| Temperature Effect On Output: | 0.004 | $\pm\%$ of Applied Load / °C |
| On Zero: | 0.007 | $\pm\%$ of Rated Output / °C |
| Zero Balance: | 3.0 | $\pm\%$ of Rated Output |
| Temperature Range Operating: | -30 to +80 | °C |
| Compensated: | -10 to +40 | °C |
| Safe Overload: | 150 | % of Rated Capacity |
| Ultimate Overload: | 300 | % of Rated Capacity |
| Excitation Voltage Recommended: | 10 | Volts AC or DC |
| Maximum: | 15 | Volts AC or DC |
| Input Impedance: | 780 ± 20 | Ohms |
| Output Impedance: | 705 ± 5 | Ohms |
| Insulation Impedance: | > 1000 | MegaOhms |
| Deflection at Rated Capacity: | < 0.4 | mm |
| Weight: | 10-25klb: 2.5, 40klb: 5.0, 50-75klb: 8.5. | kg |
| Construction: | Electroless Nickel Plated Alloy Steel | |
| Environmental Protection: | IP67 | |
| Cable: | 7 metre standard 4 core PVC cable with copper spiral screen | |

All dimensions in mm



| RANGE | ØA | C | D | E | F | G | Rad H | Rad J | K | L | M | N |
|----------|------|------|------|-------|-------|------|-------|-------|------|------|------|------|
| 10-25klb | 17.3 | 42.9 | 49.3 | 196.9 | 165.1 | 35.9 | 19.1 | 22.9 | 41.4 | 43.2 | 8.8 | 13.6 |
| 40klb | 20.6 | 49.3 | 62.0 | 260.4 | 215.9 | 49.0 | 25.4 | 28.5 | 50.8 | 53.3 | 9.0 | 31.0 |
| 50-75klb | 26.9 | 62.0 | 74.7 | 260.4 | 215.9 | 49.0 | 25.4 | 34.8 | 64.5 | 67.3 | 10.4 | 37.4 |

