



**APPLIED MEASUREMENTS LTD.**  
Transducer Specialists...

+44 (0) 118 981 7339

[info@appmeas.co.uk](mailto:info@appmeas.co.uk)

[www.appmeas.co.uk](http://www.appmeas.co.uk)

## CCD Column/Canister Load Cell

### Key Features:

- Capacities 2 tonnes to 1000 tonnes
- $<\pm 0.25\%$  Accuracy
- Sealed to IP65
- Output: 2mV/V (1.5mV/V on 500te+)
- Robust Construction
- Submersible Version Available
- Competitively Priced
- 3 Year Warranty

*Column type compression load/force cell*

**THIS PRODUCT HAS BEEN DISCONTINUED**

**PLEASE USE OUR [DOME TOP COLUMN LOAD CELL](#) | [CANISTER LOAD CELL](#) | [CCDDT](#) INSTEAD**



*Image of our newer model CCDDT domed top column load cell.*

The CCD 0.25% accuracy series of column compression load cells are designed for heavy duty mid to high capacity applications such as pile force measurement, press testing and hydraulic jack levelling systems. The CCD 0.25% load cell can also be modified to provide higher integrity and have the option of increasing the IP rating for submersible applications.

The 0.25% accuracy of the CCD accompanied by keen pricing makes it highly competitive for low and high volume users alike. If a higher accuracy is needed, please see our [CCDHA 0.1% higher accuracy version](#), designed for use as Reference Standards or in high capacity weighing applications.

### Options:

- Fully Submersible IP67 or IP68 Rated
- Other Ranges Available on Request
- Equivalents to Other Manufacturers
- Full Range of Mounting Options Inc.: Custom/ Standard Loading Caps, Custom Mounting Bases
- High Accuracy Versions Available
- Versions Available with Integral Signal Amplifiers
- Shunt Calibration
- Different Cable Lengths
- Internal Signal Amplifiers
- TEDS (Transducer Electronic Data Sheet)
- TEDS Allows Plug & Play with TEDS Enabled Instrumentation.
- USB Version (via DSC-USB)
- Vacuum Application Version
- Single or Multi-Channel PC-Based Monitoring & Data Logging System
- Wireless Version (via T24 instrumentation)

### Applications:

- Silo Weighing
- Pile Force Measurement
- Heavy Duty Jack Levelling Systems
- Press Calibration
- Centre of Gravity (CoG) Measurement Systems
- High Capacity Multi-Point Weighing Systems



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## Specification:

Rated Capacity (RC)	tonnes	0-2, 0-5, 0-10, 0-25, 0-50, 0-100, 0-200, 0-300, 0-500, 0-1000
Operating Modes	Compression Only	
Sensitivity (RO)	mV/V	2.0 nominal (1.5 nom. on >500te)
Zero Balance/Offset	±%/Rated Output	<2.0
Non-Linearity	±%/Rated Output	<0.25
Hysteresis	±%/Rated Output	<0.15 typical
Repeatability	±%/Rated Output	<0.4
Zero Return	±%/Applied Load	<0.040
Temperature Effect on Zero	±%/Applied Load / °C	<0.010
Temperature Effect on Sensitivity	±%/Applied load/ °C	<0.010
Bridge Resistance	Ohms	700 (up to 50te), 1400 (100te upwards)
Insulation Resistance	Megohms @ 50Vdc	>5000
Excitation Voltage	Volts AC or DC	10 recommended (2-15 acceptable)
Operating Temperature Range	°C	-20 to +70
Compensated Temperature Range	°C	+10 to +50
Storage Temperature Range	°C	-20 to +80
Safe Overload	% of Rated Capacity	150
Ultimate Overload	% of Rated Capacity	300
Deflection @ Rated Capacity	mm	See dimension table
IP Rating (Environmental Protection)		IP65
Weight (excluding cable)		See dimension table
Fatigue Life		10 <sup>8</sup> cycles typical (10 <sup>9</sup> cycles on fatigue-rated version)
Cable Length (as standard)	metres	4
Cable Type		4-core screen, PUR sheath, Ø5 nominal
Construction Material		Stainless Steel
Resolution		1 part in 250,000 (with appropriate instrumentation)

## Wiring Diagram:

Wire	Designation
Red	+ve excitation
Blue	-ve excitation
Green	+ve signal
Yellow	-ve signal
Screen	To ground - not connected to load cell body



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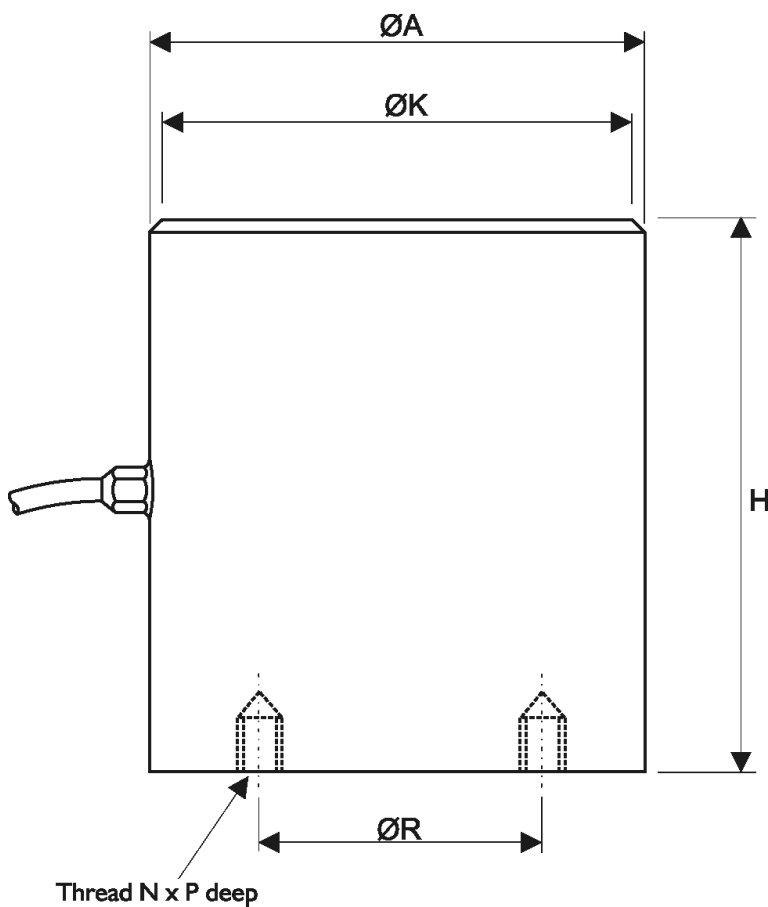
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## Dimensions (mm):

Capacity (t)	H	ØA	ØK	Thread N	P	ØR	Deflection @ Rated Capacity (nominal)	Weight (kg)
0-2	40	31	22	M3	5	20	0.10	0.3
0-5	40	31	22	M3	5	20	0.10	0.3
0-10	75	50	39	M4	8	34	0.15	1.2
0-25	75	50	39	M4	8	34	0.15	1.2
0-50	100	88	80	M4	8	50	0.20	5
0-100	150	100	88	M5	10	70	0.30	10
0-200	180	125	106	M6	12	78	0.35	18
0-300	185	138	117	N/A	N/A	N/A	0.35	22
0-500	250	165	150	N/A	N/A	N/A	0.45	42
0-1000	400	276	230	N/A	N/A	N/A	0.70	195





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## Ordering Codes:

Core Product	Capacity (inc Engineering Units)	Cable Length (m)	Specials Code	Example Result
CCD	2t	004	000	CCD-2t-004-000
CCD	5t	004	000	CCD-5t-004-000
CCD	10t	004	000	CCD-10t-004-000
CCD	25t	004	000	CCD-25t-004-000
CCD	50t	004	000	CCD-50t-004-000
CCD	100t	004	000	CCD-100t-004-000
CCD	200t	004	000	CCD-200t-004-000
CCD	300t	004	000	CCD-300t-004-000
CCD	500t	004	000	CCD-500t-004-000
CCD	1000t	004	000	CCD-1000t-004-000

## Associated Products:



[TR150 Handheld Indicator](#)



[T24 Wireless Telemetry Range](#)



[Intuitive4-L Panel-Mount Indicator](#)



[DSC-USB USB Signal Digitiser](#)



[ICA Miniature Strain Gauge Amplifier](#)



[SGA Signal Conditioner/Amplifier](#)