

MACKLOW SMITH TENSION & COMPRESSION LOAD CELL

Series MST04

Applications

Test machines, calibration of test machines both in tension and compression, load measurement for process control, measuring the load applied in presses.

Design Features

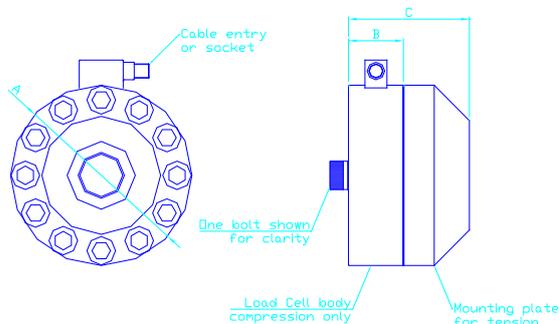
The standard design incorporates a pancake style compression load cell which can be easily adapted for measuring tension forces by fitting the mounting plate. A pair of platens using spherical seating to ensure accurate measurement of miss-aligned loads in compression.

Calibration

These load cells can be supplied with a Macklow-Smith works calibration certificate traceable to national standards or a UKAS calibration certificate. They can also be supplied tested and ready for calibration by the customers preferred test laboratory.

Options

Cable socket and plug
Platens with spherical seat for compression
Mounting plate for tension
Rod eye bearings for tension



SPECIFICATION



Capacity	ØA	B	C
5kN, 10kN, 25kN	100mm	35mm	72mm
50kN, 100kN	127mm	35mm	72mm
200kN, 300kN	159mm	50mm	110mm
500kN	169mm	60mm	120mm
750kN, 1000kN	253mm	80mm	165mm
2000kN	324mm	100mm	200mm
3000kN, 5000kN	384mm	120mm	240mm
	5kN ~ 500kN	750kN ~ 5000kN	
Rated output	2.0mV/V nominal		
Linearity	± 0.05% of rated output		
Non repeatability	± 0.05% of rated output		
Zero Return (30min)	± 0.05% of applied load		
Zero balance	± 1% of rated output		
Operating temperature	-10°C - +70°C		
Compensated temp'	-10°C - +40°C		
Temp' effect on output	± 0.024% of applied load/°C		
Temp' effect on zero	± 0.028% of rated output/°C		
Safe overload	150% of rated capacity		
Ultimate overload	300% or rated capacity		
Excitation	10V -18 V, AC or DC		
Input impedance	800 Ω nominal	430 Ω nominal	
Output impedance	705 Ω nominal	352 Ω nominal	
Insulation resistance	>5 GΩ at 50 V DC		
Construction	Stainless steel		
Environmental	IP67		
Cable (standard)	4 core screened		

In the interest of product development we reserve the right to alter specifications without prior notice.