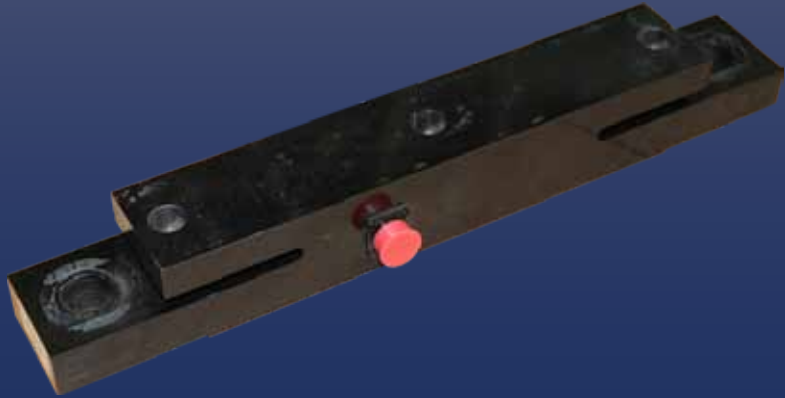


Loadcell Model 1200

Product Specification



For use in: Heavy Duty Logging, Long Logger Replacements
and Special Applications

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Assembly Numbers

29/BBB1200PB Loadcell only (shown)

29/BBB1200PU Loadcell, unitised with bearing plates and Posistop

Structural Configuration

Double ended, rigid-mount bending beam

Compression loading

Bare Weight	20.5kg	Static Capacity
Unitised Weight	26.8kg	25,000kg

Dynamic Capacity	Safe Overload
10,000kg	150% of Static Capacity

Ultimate Overload

Minimum of 300% of Static Capacity

Loadcell Body Material

4340 alloy steel, heat treated to 180,000psi yield strength

Bearing Plate

2x 21/63-00040, single piece weld down ASTM A514 Steel

Top Mounting Bolts(2)

1"-14TPI x (Length dependant on Mountings), Grade 8

Tie Down Bolts(2)

21/63-00 1 1/4" x 2 1/2" Posistop, Grade 8

Connector

7 pin Military style, injection moulded

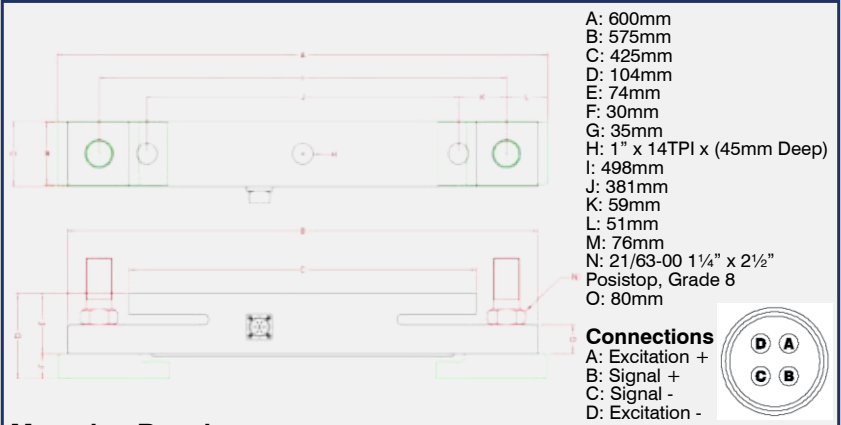
Electrical

Excitation: volts (AC or DC)
 - volts recommended

Output: 0.5.mv/v @ 7,000kg

Impedence: 1,200Ω +/- 110Ω

Isolation: 5,000MΩ at 50 volts



Mounting Requirements

Top Plate must be dead stiff and machined flat after welding.
 Bottom Mounting must be dead stiff.
 Bearing plate must be welded using 12mm fillet.
 Across ends and 100mm down each side towards centre. Also in centre both sides for 50mm.

Capacity

Maximum Dynamic Load	10,000kg (22,000 lb)
Maximum Static Load	25,000kg (55,100 lb)
Top bolt thread engagement into loadcell	Min: 25mm Max: 32mm

Bolt Tensions

1" Top mounting bolts = 945Nm(700ft/lb)
 1¼" End mounting bolts = 1370Nm(1000ft/lb)

Coat all bolts with anti-seize

Precautions

Do not strike an Arc on the loadcell body with a welder. It is OK to use the loadcell to position the Mounting Bushes for tack welding only. Remove the loadcell to complete the welding procedure.
 Do not damage the cover plate as this protects delicate strain gauges.
 Take care to protect the loadcell connector/cable as this can not be replaced in the field.
 Fit protection for the loadcell connector from stones and foreign objects which may damage it.
 Do not damage or paint over the Part/Serial Number identification tag.

IMPORTANT

Loadcell must be mounted in accordance with Elphinstone instructions. Failure to do so may void warranty. Specifications subject to change without notice. These specifications supercede all previous specifications as of October 2006.

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