

LOAD CELL METHODOLOGY

MODEL 5020

MS5020-01

The Geotechnical Systems Australia Pty Ltd [Load Cell](#) is installed in a variety of ways. This document details our standard methodology.

MANUFACTURE AND SUPPLY

Geotechnical Systems manufacture Load Cells at our Melbourne factory. Cells are held in stock in component form ready for assembly to client requirements. Cells and associated equipment are shipped as per the client's requirement when the order is placed. Should the order be in excess of our standard stock level then Geotechnical Systems will prepare an acceptable schedule of deliveries in consultation with the client to suit the construction program. Load cells are supplied by nominated courier or delivered to site by Geotechnical Systems staff. The instruments are calibrated at the factory to NATA standards prior to shipping and calibration sheets are enclosed as well as held in our client database. Geotechnical Systems is a Quality Endorsed Company conforming to AS/NZS ISO 9002:1994 and AS/NZS ISO 9001:2000.

TRANSDUCER

The load cells may be connected to either a Bourdon Gauge or a Model 1200 VW Transducer. Other sensors (such as 4-20mA) may be used after discussion with Geotechnical Systems.

INSTALLATION

Load cells will be installed in accordance with drawing number GA5020-01. The platens will be of sufficient diameter to fully cover the load cell. The cell will be connected to a readout during installation to ensure that the instrument is not taken over range during tensioning. Care will be taken to ensure that there is no eccentricity of load and that the cell does not suffer from wedging. After placement of the cell base readings will be taken and the instrument connected to either a terminal box or data logger. Refer to MS9140-01 and GA9140-01 and below.

CABLING AND TERMINATION

Cabling will be run to the intended termination point (Datalogger or Terminal Box) and be clearly marked. The cabling may be direct burial or run in conduit as per the client's instructions. Joins will be avoided wherever possible. For large groups of instruments multi-core cable may be employed. Termination will be within an enclosure and will include lightning protection whenever possible.

COMMISSIONING

Geotechnical Systems will commission instrumentation in the presence of the client's representative. Training will be given in the use of the equipment as required. A record of all installation data will be kept and provided to the client after commissioning is complete.

WARRANTY

All Geotechnical Systems products are warranted for a period of 3 months from date of supply.



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