

VIBRATING WIRE STRESSMETER METHODOLOGY

MODEL 3100

MS3100-01

The Geotechnical Systems Australia Pty Ltd [Vibrating Wire Stressmeter](#) is an instrument designed to monitor stress changes in rock and concrete.

MANUFACTURE AND SUPPLY

Geotechnical Systems manufacture the Vibrating Wire Stressmeter. All other brands are imported. Stressmeters are held in stock with no cable attached, this is added 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. Stressmeters are supplied by nominated courier or delivered to site by Geotechnical Systems staff. The instruments are tested prior to shipping. Geotechnical Systems is a Quality Endorsed Company conforming to AS/NZS ISO 9002:1994 and AS/NZS ISO 9001:2000.

INSTALLATION

Borehole

The borehole size should be established prior to ordering to ensure the correct fit. Holes should be blown out free of debris prior to installation.

Placement

The instrument should be attached to the installation tool and slowly pushed down the hole to depth. It is useful to mark the required depth on the cable prior to commencing.

Setting

Once the correct depth has been reached the wedge is driven into the platen to secure the instrument in place. This is achieved by use of a slide hammer attached to the end of the installation tool.

During setting the instrument should be monitored and setting ceased once 10% of full range has been observed or the wedge has travelled full distance.

CABLING AND TERMINATION

As the instrument is of the vibrating wire type the cable run can be up to 1km.

Cabling will be run to the intended termination point (Datalogger or Terminal Box) and 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 piezometers 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.



**Quality
Endorsed
Company**

ISO 9002 Lic 4022
Standards Australia

GEOTECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

Specialists in Geotechnical Instrumentation

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