

DEEP HOLE WIRE EXTENSOMETER METHODOLOGY

MODEL 4020

MS4020-01

The Geotechnical Systems Australia Pty Ltd [Deep Hole Wire Extensometer](#) provides a physical means of measuring the displacement in the zone between workings and the obvious surface displacements. The system features monitoring techniques which are efficient and accurate yet not excessively complex or expensive.

MANUFACTURE AND SUPPLY

Geotechnical Systems manufacture the Deep Hole Wire Extensometer. Extensometers are held in stock in component form, they are built to suit 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. Extensometers are supplied by nominated courier or delivered to site by Geotechnical Systems staff. The extensometers are calibrated 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.

INSTALLATION

Borehole

The borehole size should be established prior to ordering to ensure the correct fit.

Installation

The installation of Deep Hole Wire Extensometers is a skilled task requiring unique equipment. Geotechnical Systems recommend the use of a GSA engineer or technician for this purpose.

Site Preparation

Check that the hole is to depth with a tape and sinker weight

Arrange for the collar pipe to be concreted in prior to arrival

Source a 75cfm compressor and nitrogen bottle

Arrange transport and driver

Check that the installation equipment has arrived

CABLING AND TERMINATION

Cabling will be run to the intended termination point (Datalogger or Terminal Box) and clearly marked. The cabling may be open run, 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.



GEOTECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

Specialists in Geotechnical Instrumentation

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