DATA ACQUISITION UNIT, GEODATALOG 8

GEODATALOG 8 is a multipurpose data logger which works directly connected to a PC. Data are automatically transferred to the PC in real time for live monitoring of the tests progress.

GEODATALOG 8 records and monitors in real time the measurements requested for soil mechanics testing, as: consolidation, shear, triaxial, permability and many others.

It is compatible with strain gauge load cells, pressure transducers, linear LDT transducers, LVDT conditioned transducers, potentiometric displacement transducers.

GEODATALOG 8 is conceived with a modular and flexible concept: up to 8 instruments can form a network and then create a modular system with up to 64 independent channels.

The data acquisition unit is supplied complete with general purpose DATACOMM 2 PC software for fully comprehensive data management of both GEDOTALOG 8 and HYDROMATIC.

DATACOMM 2 software combines the active channels into customizable groups by the operator. Data acquisition for each group is an independent task which can be started/stopped automatically with specific acquisition and logging mode.

Software allows remote calibration of the connected sensors up to 10 points with polynomial fitting curve up to eight degree.

ASCII format data export is available for combination with our geotechnical Geo-Analysis-Templates suitable for post-processing and printout of test certificates according to the most important international Standards.

DATA ACQUISITION UNIT, GEODATALOG 8

SPECIFICATION

- Requires connected PC
- Number of channels: 8
- Network mode: Up to 8 units
- Sampling rate: Up to 500 readings/second per channels
- Real resolution:131,000 points
- Communication port: LAN / Ethernet
- Excitation (VEXC): from 1 V to 10 V for each couple of channels (up to 4)
- Datalogger input: 0-10 V; 0-20 mA
- Software: DATACOMM 2 (included)
- Dimensions approx lxdxh [mm]:290x195x61
- Weight approx [kg]: 1.6 kg
- Power supply: 110-220V,50-60 Hz, 1ph

FEATURES

- Up to **8 independent** input **channels**.
- **Network** configuration of up to **64** independent channels.
- LAN / Ethernet connection to PC via **dedicated software (included)**.
- Compatible with load cells, pressure transducers, strain gauges, LDT/LVDT/potentiometric displacement transducers.
- Effective resolution: **131,000 points**.
- Sampling rate up to **500 readings** per second per channel.
- **Numerical and graphical display** of readings via PC software.
- Possibility to **synchronize pressure and volume data coming from HYDROMATIC** with data from the other transducers connected
- The transducers can be **grouped and combined** by the user for matching different applications.
- It is possible to perform various tests (e.g. shear, consolidation, triaxial, ...) in parallel, each one having **independent clock, channels and logging mode**

ACCESSORIES

82-P9008/ELT

Set of four cables for connecting load cells, pressure transducers, strain gauges, LDT / LVDT / potentiometric type displacement transducers to DATALOG 8 (82-P9008) and GEODATALOG 8 (30-WF6008)

30-WF6042

Transducer extension cable, 6 m length

30-WF6044

Transducer extension cable, 12 m length

30-WF6016/T10

Total stress(UU)triaxial testing Geo-Analysis template conforming to ASTM 2850

30-WF6016/T11

Effective stress (CU-CD) triaxial testing Geo-Analysis template conforming to ASTM D4767

30-WF6016/T12

Hydraulic Consolidation Geo-Analysis for MS-EXCEL Template according to BS 1377:6

30-WF6016/T13

Hydrocon SWCC Geo-Analysis for MS-EXCEL Template

30-WF6016/T14

Permeability Geo-Analysis template. MS Excel application for importing test data, calculating and plotting results and producing test report in accordance with BS1377: 6

30-WF6016/T15

Unconfined Geo-Analysis template according to ASTM D2166

30-WF6016/T17

CBR Geo-Analysis for MS EXCEL Template according to ASTM D1883

30-WF6016/T4

Effective Stress (CU,CD) Triaxial testing Geo-Analysis for MS EXCEL Template according to BS 1377:8

30-WF6016/T5

Total Stress (UU) Triaxial testing Geo-Analysis for MS EXCEL Template according to BS 1377:7

30-WF6016/T6

CRS type Consolidation Geo-Analysis for MS EXCEL Template according to ASTM D4186

30-WF6016/T7

CBR Geo-Analysis for MS EXCEL Template according to BS 1377:4

82-P9008/ELT1

Cable for connecting load cells, pressure transducers, strain gauges, LDT / LVDT / potentiometric type displacement transducers to DATALOG 8 (82-P9008) and GEODATALOG 8 (30-WF6008)

30-WF6016/T2

Direct and residual Shear Geo-Analysis for MS EXCEL Template according to BS 1377:7

30-WF6016/T9

Direct and residual shear Geo-Analysis template conforming to ASTM D3080

30-WF6016/T1

Consolidation Geo-Analysis for MS EXCEL Template according to BS 1377:5

30-WF6016/T8

Consolidation Geo-Analysis template conforming to ASTM

30-WF6016/T8A

Consolidation Geo-Analysis template conforming to ASTM D4546

30-WF6016/T16

Ring Shear Geo-Analysis MS EXCEL template conforming to ASTM D6467

30-WF6016/T3

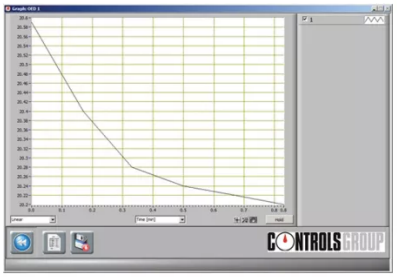
Ring Shear Geo-Analysis for MS EXCEL Template according to BS 1377:7

ORDERING CODE

30-WF6008

GEODATALOG 8, 8 channels multipurpose data logger with dedicated software DATACOMM 2.

HUB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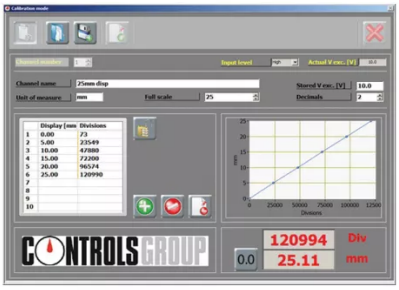
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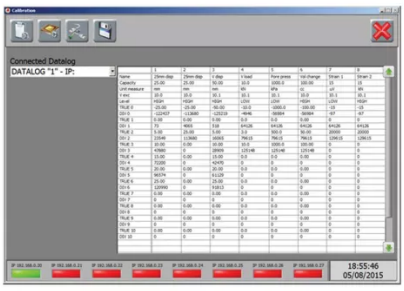
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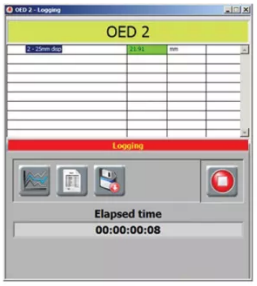
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