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Регистраторы геотехнических данных серии dataTaker DT8x



Various remote connection options eg dial up modem
Supporting vibrating wire sensors the new dataTaker® DT8xG GeoLogger
is ideal for all geotechnical data logging applications. The dataTaker®
GeoLoggers have built-in vibrating wire support providing ideal data
acquisition and monitoring solution for the engineer working in the
geotechnical environment.

The dataTaker® GeoLoggers can monitor a wide variety of geotechnical datalogging applications including slope stability, subsidence, dam wall monitoring, tunnel and mining excavation, ground water, tunnel wall monitoring and site assessment.

The DT80G and DT85G can be expanded simply by connecting dataTaker® Channel Expansion Modules (CEM20) to provide 100 to 300 vibrating wire channels with thermistors.

The advanced new dataTaker DT8xG range of GeoLoggers are compatible with all major brands of geotechnical instrumentation including Slope Indicator, RST Instruments, Geokon, Soil Instruments, RocTest, AGI – Applied Geomechanics Inc.

- DT80G 5-15 universal inputs
- DT85G 16-48 universal inputs
- Vibrating wire support
- Expandable Analogue channels using CEM20. DT80G up to 100 and DT85G up to 300 geotechnical channels
- USB memory for easy data and program transfer
- Flexible communications (USB, Ethernet and RS232)

Key Features

- Standalone data logger with link to a PC
- Dual channel isolation technology
- User definable allocation of memory size and mode
- Vibrating wire support
- Expandable to 800 universal analogue channels – 300 Geotechnical channels (with CEM20's attached to a DT85G)
- 8 digital input/output channels
- 12 counter inputs (4 high speed) and 2 phase encoders
- Calculated measurements
- SDI-12 (multiple networks)
- 2 serial 'smart sensor' ports
- Modbus for SCADA connection
- Memory of approximately 10 million data points
- FTP for automatic data transfer
- Web Interface

Analogue inputs supported

- Thermistors
- Thermocouples
- PT100/PT1000
- Voltage

- Current
- Resistance
- Frequency
- Vibrating wire sensors
(Iclinometer/Extensometer/Piezometer/Pressure cell/ Crack meter/Tilt meter)
- Bridge connections (Strain gauges/Load cells)

Key Capabilities

- Create complex schedules of logging rates, triggers and alarm outputs
- Scale and view readings in real time on the integral display or on a PC running Delogger or Excel
- Display readings in preferred engineering units e.g. Hz, Bar, Pascals, Nm etc.
- Select logging rates
- Derive calculated (virtual) channels from real input channels using mathematical functions
- Concurrently sample channels at different sample speeds
- Measure recordings from vibrating wire sensors such as Iclinometer, Extensometer, Piezometer, Pressure cell, Crack meter and Tilt meter

Specifications

1. USB, Ethernet and RS232 connectivity for quick and easy PC and remote communication and networking.
2. Power supply – external DC power supply.
3. Convenient 2 line x 16 character backlit LCD for easy access to readings and set-up information
4. 4 digital input/output or low speed counter channels
5. 4 digital input/output/low speed counter channels or SDI-12 connections for multiple networks
6. 4 high speed counters or 2 phase encoders
7. RS232/422/485 generic serial sensor port
8. 5 to 15 universal analogue inputs for recording temperature, current, voltage, resistance and vibrating wire

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