

DATA SHEET

Data acquisition unit **DATALOG 8** - Battery operated version designed for in-field applications

DATALOG 8

MAIN FEATURES

- In-built battery operated with rigid carrying case suitable for use on field
- 6" touch screen colour graphic display
- Separate display for battery status
- 8 independent input channels
- Display of readings and graphs in real time
- Unlimited storage capacity with USB pen drive
- Contemporaneous data sampling of all channels in accordance to the programmable logging mode

GENERAL DESCRIPTION

DATALOG 8 is a standalone data logger for general purpose acquisition, processing and data storage for laboratory and site applications.

Differently from the laboratory version, this model is housed inside a rigid carrying case with a long-life rechargeable battery. It is particularly suitable for field applications where mains power supply is not available.

DATALOG 8 features a wide 6" touch screen colour graphic display and a separate display for battery status. The unit records and monitors in real time the measurements requested by different tests, for example:

- Plate bearing test apparatus (electronic versions)
- Rock shear box apparatus (digital version model)
- In-situ determination of stress, deformability and resistance of masonry walls with flat jacks
- ... and many other tests

TECHNICAL SPECIFICATIONS

- Number of channels: 8
- Compatible with load cells, pressure transducers, strain gauges, LDT/LVDT/potentiometric displacement transducers
- Communication port: LAN / Ethernet
- Real resolution: 131,000 points
- Data storage on removable USB pen drive
- Sampling rate: up to 10 readings per second per channel via USB (up to 500 readings per second per channel via LAN when connected to a PC)
- Excitation (V_{EXC}): from 1 V to 10 V for each couple of channels (up to 4)
- Input signal : 0-10 V; 0-20 mA
- Battery operated: internal rechargeable sealed battery 12V, 7.2 Ah and built-in battery charger 110-230 V, 50-60 Hz, 1 ph. Power cable is included

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- Battery life: 8 hours in continuous use
- Dimensions approx lxdxh [mm]: 265x171x223
- Weight approx. [kg]: 6

ORDERING INFO

82-P9008/F

DATALOG 8, 8 channels stand alone multipurpose data logger battery operated with rigid carrying case suitable for use on field.

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 82-P9008/F) and GEODATALOG 8 (30-WF6008)

82-P0398 (needed for strain gauge use)

Compensation device for up to 4 Wheatstone bridges with 1/4 or 1/2 bridge setup.

26-WF4645

LAN HUB with 8 ports

82-P9008/SOF

DATACOMM 2 data acquisition software and LAN cable for PC connection of DATALOG 8 (82-P9008 and 82-P9008/F).

- Up to 8 datalogger (total 64 channels) can be connected to a single PC creating a modular network (LAN hub is required)
- Free user setting of channel groups (nr. and type of channels)
- Numerical and graphical display of the readings
- Fully customizable multi-diagrams function including multi-channels plotted against the same axes and / or one channel plotted in relation to another
- Data export ASCII format
- Possibility to save and recall different calibration files allowing quick transducers swapping



Data acquisition unit DATALOG 8 model 82-P9008/F- Battery operated version designed for in-field applications



Data acquisition unit DATALOG 8 model 82-P9008/F Detail of complete kit



Data acquisition unit DATALOG 8 model 82-P9008/F - Detail of the 6" touch screen colour graphic display



Data acquisition unit DATALOG 8 model 82-P9008/F - Detail of removable USB pen drive



Data acquisition unit DATALOG 8 model 82-P9008/F - Main menu



Data acquisition unit DATALOG 8 model 82-P9008/F - Live readings of the 8 channels