

DATA SHEET

Digital Deflection Measuring System for Suspended Structures



Digital instrumentation for deflection measurement of structures, 58-C0239/A complete system with 3 additional measurement elements (58-C0239/A1 q.ty 3)

General description

The determination of deflection of ceilings, bridges or any suspended structure, can be easily performed using this modern digital system. This independent data acquisition unit, equipped with in-built rechargable battery, touch screen graphic display and removable USB pen drive, is ideal for testing application where the data must be verified as soon as they are acquired or in case of programmed medium and long term acquisition.

The testing set includes DATALOG 8, 8 channels multipurpose data logger with rigid carrying case suitable for use on field, 5.7" touch screen graphic colour display; three telescopic supports with 3 displacement transducers 50 mm stroke.

Additional transducers with telescopic supports and PC software can be ordered separately. See link to other products below for further details of DATALOG 8 - Battery operated version.

Main features

- **Modular system: basic configuration with 3 measuring units**
- **Expandible up to 6 units**
- **DATALOG 8, 8 channels datalogger, in-built battery operated with rigid carrying case suitable for use on field. 5.7" touch screen colour graphic display**
- **Displacement transducers with 50 mm travel and 12 m cable allowing increase manageable on site**

Specifications

Datalogger

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

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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

Battery life: 8 hours in continuous use

Dimensions approx lxdxh [mm]: 265x171x223

Weight approx. [kg]: 6

Displacement transducers and telescopic supports

Light alloy telescopic supports for measurements from 1.80 to 6 m. 3 pieces included.

Displacement transducers with 50 mm stroke and 12 m cable. 3 pieces included.



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Products

58-C0239/A

Digital system for structural testing.

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58-C0239/A1

Additional measuring element for structural testing system 58-C0239/A including: - No. 1 aluminum telescopic support (maximum extension 6.00 m) - No. 1 displacement transducer, 50 mm stroke - 12 meters cable

Accessories and consumables

82-P9008/SOF

DATACOMM 2 data acquisition software and LAN cable for PC connection of DATALOG 8 (82-P9008, P9008/F) - Up to 8 datalogger (total 64 channels) can be connected to a single PC creating a modular network (LAN hub is required)

58-C0239/A1

Additional measuring element for structural testing system 58-C0239/A including: - No. 1 aluminum telescopic support (maximum extension 6.00 m) - No. 1 displacement transducer, 50 mm stroke - 12 meters cable