

# PORTABLE INCLINOMETER DATALOGGER

Model ACCULOG-iX

## APPLICATIONS

- Records data from inclinometer probes and tiltmeters
- Compatible with LVDTs, linear potentiometers, strain gauges, thermistors, and in option 4–20 mA transducers

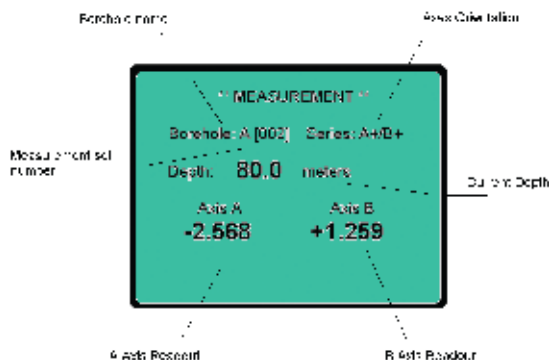
## DESCRIPTION

The ACCULOG-iX is a portable datalogger housed in a light, yet robust case. User-friendly menu interfaces simplify settings, readout and operation. Six function keys allow the operator to navigate within menus and options while configuring measurements directly on the unit.

The unit is ready to be used in the field, even in harsh environments thanks to its:

- waterproof, shock resistant case
- front panel sealed against humidity
- connector caps offering protection against rain, snow and mud
- hand switch keeping unit away from work area

The ACCULOG-iX is supplied with a PC compatible ACCUTALK 2000, which provides a very comfortable configuration environment. To prepare measurement sets, the operator simply enters borehole specifications and transfers them from his PC to the ACCULOG-iX.



User-friendly menu interface for measurements

## FEATURES

- Easy-to-use interactive menu interfaces
- Easy-to-read large LCD display with cold cathode fluorescent backlight
- Usable in harsh environments
- Continuous display of checksum (offset)
- Stores up to 20 000 readings
- Supports uniaxial, biaxial, spiral and horizontal inclinometer probes
- Compatible with LVDTs, strain gauges, linear potentiometers, thermistors, and in option 4–20 mA transducers
- ASCII, spreadsheet and G-Tilt™ compatible formats
- Faster transfer using selectable borehole download

## SPECIFICATIONS

Probe input range	±10 VDC
Readout resolution	40 µV (analog), 20 bits (digital)
Display	240 × 128 pixels, LCD CCFL, backlit
Units	Metric and English, as selected according to the probe type
Function keys	Six function keys to navigate within interactive menus ON/OFF key and ON/OFF backlight key
Memory	1MB RAM, with lithium battery backup, allowing to store 65 000 readings for up to 250 data sets Flash memory for factory issued software updates
Data output format	ASCII, Spreadsheet and G-Tilt™ compatible formats
Probes	Roctest RT series inclinometer probes, including horizontal and spiral probes Any probe with ±10 V range outputs
Input impedance	1.2 MΩ and 250 Ω for 4–20 mA signal
Probe power supply	Programmable (±13.7 VDC @ 100 mA)
Interfacing	Communication port: RS-232, 9600 to 115 200 baud hand switch
Internal batteries	Two rechargeable 6 volt, 7 Ah, sealed lead-acid batteries External battery charger input External power supply input
Connectors	4-pin female connector for external power input and battery charger 6-pin connector for communication port and hand switch Probe connector
Autonomy	>15 hours with LCD CCFL backlight on
Operating temperature	–20 to +70°C
Case	Waterproof, shock resistant ABS plastic
Dimensions	125 × 250 × 270 mm
Weight	4.8 kg
Utility software	ACCUTALK 2000: WINDOWS * user interface

## OPTIONS

- Compatible with 4–20 mA transducers
- Internal heating element
- Cable fitted with special connectors for external power supply
- USB to serial adaptor to connect ACCULOG-iX on a PC without a serial port

## ORDERING INFORMATION

Readout includes battery charger, hand switch, serial cable for connection to a PC, connector caps, ACCUTALK 2000 software and carrying case.

Please specify:

- Line voltage for battery charger (110 or 220 VAC)
- Options required