ELECTRIEL

DLP-5

**PORTABLE DATALOGGER
FOR TEMPERATURE, HUMIDITY AND ILLUMINANCE
MEASUREMENTS, WITH 2 EXTERNAL INPUTS**

MADE IN FINLAND

KEY FEATURES

MULTIPLE LOGGING METHODS
- Time-based – log at fixed time interval
- Event-based – log when an external event triggers the measurement

EXTENDED MEMORY
- Up to 250 000 points

MODERN TFT TOUCH SCREEN DISPLAY
- 2.4" TFT color display with intuitive graphical visualization of logged data

PLUG AND PLAY
- Easy to use, no pre-configurations needed for basic usage

STANDARD USB CONNECTOR
- For data download, configuration and auxiliary power supply

MULTI CHANNEL DATALOGGER
- Measure up to 5 parameters (3 built-in + 2 external inputs)

CONFIGURABLE ALARMS
- 2+2 configurable setpoint alarms can be configured per each channel
- The last 5 alarms can be read directly on the DLP-5 display

DLP-5 DATALOGGER BENEFITS

MULTI CHANNEL DATALOGGER WITH LARGE MEMORY

DLP-5 can measure and log up to 5 channels: ambient Temperature, Humidity and Illuminance are built-in, while 2 additional inputs allow you to easily record measurement from external sensors. The large built-in memory can memorize up to 250 000 measurement points. Additional "Last Alarm Memory" allows to read the last 5 alarms directly from the display of DLP-5.

ANYONE CAN USE IT
- **Plug and play installation.** No configurations needed for basic usage.
- **A unique color graphical display** for quick and easy monitoring of the measured parameters.
- **PC connection** (micro USB) to download the log of the measurements, retrieve detailed information of the DLP-5 status and make advanced configuration.

CONFIGURATION SOFTWARE INCLUDED

The ED Studio software allows you to easily configure, download and analyze log files from your DLP-5. ED Studio runs on Windows OS (Win 7 Pro, Win 8, …) and does not require a separate interface: DLP-5 features a standard Micro USB interface.

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TECHNICAL SPECIFICATIONS

ELECTRICAL

- Power supply: 2 x 1.5 V Battery (AAA), or via USB
- Battery life: up to 1 year ([1, 2])

PHYSICAL

- Dimensions: 115 mm x 69 mm x 19.5 mm
- Dimensions: 120 mm x 74 mm x 24 mm
  (with optional silicon cover)
- Weight: approx. 150 g
- Materials: ABS plastic / Silicone
- Protection Standard: IP40
- Display: 2.4" TFT
- USB Connectors: 1 x Type Micro-B
- External Connectors: 2 x pluggable screw terminal

LOGGING METHODS AND MEMORY ([2])

- Memory size: 250 000 points (50 000 pts/ch)
- Memory usage (selectable)
  - Record to full
  - Continuous recording
- Time-based log: log at fixed time interval
  - Time interval 1 s to 24 h (selectable)
- Event-based log: log based on event
  - Trigger event DI change, press of "event" button or alarm

ENVIRONMENT ([2])

- Operating and storage conditions
  - Temperature −20 °C to +70 °C
  - Humidity 90 % non-condensing
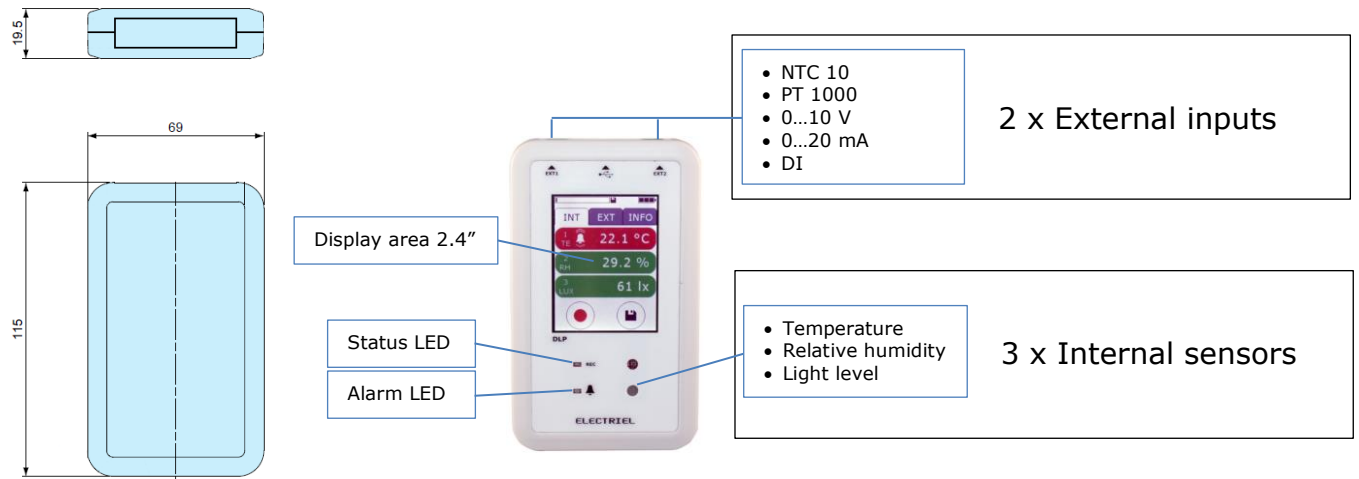
INTERNAL SENSORS RANGE AND ACCURACY ([2])

- Temperature:
  - Range −20 °C to +70 °C
  - Accuracy ±0.4 °C @ 25 °C
- Relative Humidity:
  - Range 0 % RH to 100 % RH
  - Accuracy ±3% @ 25 °C
- Illuminance:
  - Range 0 lx to 30 000 lx
  - Accuracy ±10%

EXTERNAL INPUTS RANGE AND ACCURACY ([2])

- Temperature (selectable)
  - Sensor Type NTC 10:
    - Range −40 °C to +120 °C
    - Accuracy ±0.2 °C + external sensor accuracy
  - Sensor Type PT 1000:
    - Range −40 °C to +120 °C
    - Accuracy ±0.2 °C + external sensor accuracy
    - Range −100 °C to +400 °C
    - Accuracy ±1.0 °C + external sensor accuracy
- Analog input - 0…10 V, ≤ 0.5 mA:
  - Range 0…10 V
  - Accuracy ±0.1 % FS
- Analog input - 0…20 mA, ≤ 3 V:
  - Range 0…20 mA
  - Accuracy ±0.1 % FS
- Digital input- Dry contact:
  - Range Open / Closed

([1]) 1 measurement every 15 minutes at 25°C, prolonged use of backlight display reduces battery life – ([2]) See User Manual for detailed information

PRODUCT OVERVIEW

- NTC 10
- PT 1000
- 0…10 V
- 0…20 mA
- DI

2 x External inputs

Display area 2.4"

Status LED

Alarm LED

- Temperature
- Relative humidity
- Light level

3 x Internal sensors

OTHER

EXTERNAL INPUTS
- Temperature sensors type NTC 10 (factory setting) or PT 1000
- 0…10 V input
- 0…20 mA input
- Digital Input, dry contact

WARRANTY 1 YEAR
- Contact Electriel or your authorized distributor for complete terms

MANUAL AND SOFTWARE
- Download the complete user manual and latest version of ED Studio software from Electriel Device website ed.electriel.com

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