

# Data logger with display

## DL 10



- Transmitter supply for 4 independent channels
- Freely adjustable scaling and maximum pointer function
- Linearisation via 24 x/y points
- Freely adjustable storing cycles
- Adjustable trigger thresholds for starting the storing function
- Wide range power supply



**Application** Universal application for displaying and saving up to 4 independent analogue input signals with freely selectable scaling and units; with comprehensive data logger function to memory card and integrated supply for 2-wire and 3-wire transmitters.

**Description** Digital display unit with integrated data logger in plastic housing for control panel mounting. DL 10 is used for visualising four independently parameterisable analogue signals; it features a data logger function for all channels and provides an integrated supply for 2-wire and 3-wire transmitters. Each channel has a current/voltage input and can be scaled as required. There are several types of indication. For example, the measured value can be displayed as a virtual analogue bar. The measured values can be acquired per channel in adjustable storing cycles and saved to an SD memory card. In addition, it is possible to adjust trigger thresholds to start the storing function (one channel can also trigger another channel). An integrated, electronic wide range power supply unit allows for operation in a supply range from DC 20–253 V or AC 50–253 V.

### Technical specifications

#### Display

5-digit graphical LC display, backlit (white), text-based user interface, user interface language selectable (German/English/French), units selectable from list, custom units can be defined

#### Measuring range

± 99,999 digits  
(start and end values scalable as required)

#### Linearity

± 0.2 % of measuring range

#### Resolution

10 bits

#### Response time

< 0.2 s; additional damping can be activated

#### Operating temperature range

Ambient: 0/50 °C

#### Supply voltage

AC 50–253 V / DC 20–253 V  
Approx. 7 VA / 5 W

#### Input resistance

Current: Approx. 120 Ohm  
Voltage: Approx. 100 kOhm

#### Sensor supply

Approx. DC 20 V idle and approx. DC 17 V at 20 mA  
Limited to 25 mA/channel

#### Sensor input

Analogue: 0–20 mA, 4–20 mA, 0–10 V

Digital counter: Max. 30 V, max. 2 Hz

Sensor supply: 17–20 V

#### Housing

Standard rack mounting housing  
W x H x D: 96 x 48 x 135 mm

#### Panel cut out

W x H: 92 x 45 mm

#### Degree of protection

Front and terminal area  
IP 20 (EN 60529)

#### Electrical connection

Plug-in screw terminals (1.5 mm<sup>2</sup>)

#### Linearisation

Customer-specific linearisation with a max. of 24 points for the indication of volume (e.g. litres) in non-linear tanks for each channel. Bearing charts for cylindrical horizontal tanks and spherical tanks are pre-programmed.

#### Interfaces

AD-UART

#### Data memory

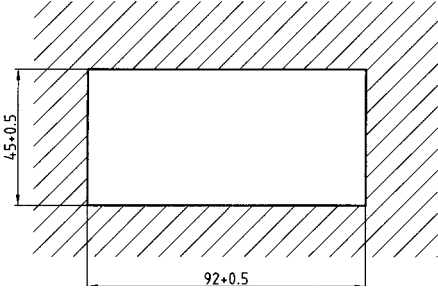
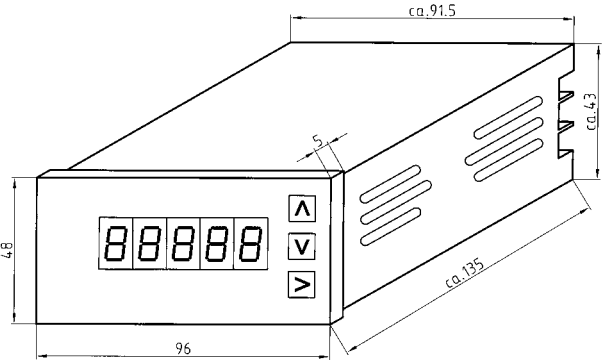
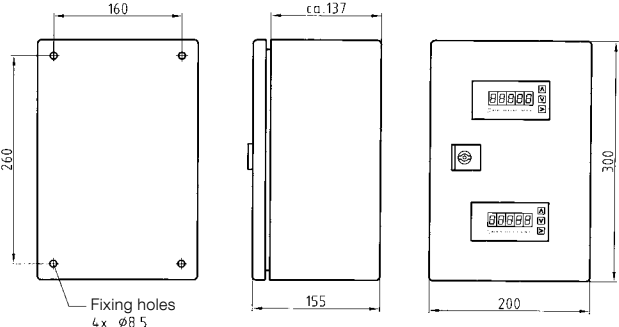
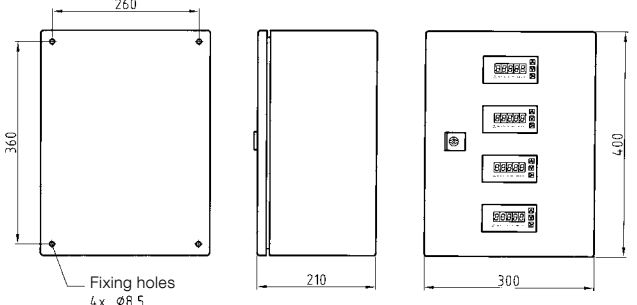
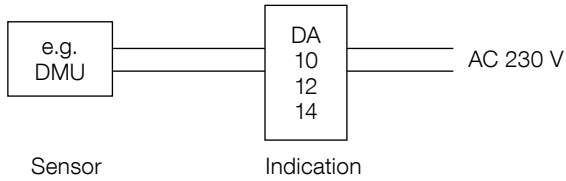
SD-/MM card (max. 2 GB), formatting: FAT, FAT 16 fastest saving cycle 1 second.

DG: H, PG: 4	Part no.	Price €
<b>Data logger with display DL 10-4 SV, 4 channels</b>	<b>31256</b>	
<b>SD memory card 1 GB, industrial version</b>	31257	

Blue part no. = in-stock items

# Digital display units DA 10/12/14 Data logger with display DL 10

Dimensions (mm) and connection diagrams

<p>Panel cut out</p> 	<p>DA 10/12/14, DL 10</p> 
<p>Wall mounting housing WAG 01/02 for up to 2 DA 10/12/14</p> 	<p>Wall mounting housing WAG 03/04 for up to 4 DA 10/12/14</p> 
<p>Connection diagram for standard application</p> 	<p>Connection diagram for EX application</p> 