

Digital display units DA 10/12/14

Universal units for electronic transducers.



Your benefits

- + Grey display with excellent readability
- + Automatic off function for the backlight
- + Text-based user interface
- + Bearing charts for cylindrical horizontal tanks and spherical tanks are pre-programmed
- + Linearisation for volume indication (24 points)
- + List of selectable units, custom display units can be defined
- + Scalable units, displayed as bar chart
- + Extended representation of limit values: Window/trend functions
- + Universal power supply unit
- + Integrated supply voltage for transducer
- + Switching outputs (DA 12/14)

Application

Universal application for displaying measured values (DA 10), optionally with additional relay outputs (DA 12/14) for all electronic transducers (standard signals such as 4–20 mA,

0–20 mA, 0–1 V, 0–10 V). In many cases, additional supply, control and evaluation units are not required. Ideal for level measurement applications, also in humid environments.

Description

Digital display unit in compact plastic housing for control cabinet mounting. The grey display allows for excellent readability. The auto-off function for the display backlight (can also be set to continuous backlight) prolongs the service life. The universal measurement input can be configured as a current input or a voltage input via the easy-to-use menu system. Connected transducers are supplied with 20 V direct voltage (galvanically isolated). Specially for level measurement applications, the tank volume is calculated and displayed, e.g. in litres, via a 24-point linearisation. Standard bearing charts for cylindrical horizontal tanks and spherical tanks are pre-programmed. Even the basic version DA 10 features a galvanically isolated analogue current output. Depending on the device version, the units feature up to 4 voltage-free relay outputs as limit switches and 2 galvanically isolated analogue outputs.

DA 10/12/14 excels with a host of features. In addition to pre-programmed units, it is possible to set up custom display units. The units are scalable and shown as bar charts. The indication of limit values has been extended by a window and a trend function (rising/falling). All physical analogue values can be shown on the display to monitor the inputs and outputs. In addition, it is possible to connect a potentiometer (> 100 Ohm) for test purposes. If a measured value is exceeded, a flashing error text immediately signals this condition on the display. The parameter backup feature allows you to restore previous configurations if they have been saved.

Technical specifications

Display	5-digit graphical LC display, backlit (white), text-based user interface, user interface language selectable (German/English/French/Italian), selectable units, custom units can be defined
Measuring range	± 99,999 digits (start and end values scalable as required)
Linearity	± 0.1 % of measuring range
Resolution	Decimal point position can be set as required
Response time	< 0.2 s
Operating temperature range	Ambient: 0/50°C
Supply voltage	AC 50-253 V/DC 20-253 V 2,5 W respectively AC 4,4 V
Sensor supply	Integrated, galvanically isolated supply voltage for transducer: DC 21 V/20 mA



Sensor input	All analogue standard signals, e.g. 4-20 mA, 0-20 mA, 0-1 V, 0-10 V
Analogue output	0/4-20 mA, galvanically isolated
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)	IP 65 (EN 60529)
Electrical connection	Plug-in screw terminals (1.5 mm ²)
Linearisation	Customer-specific linearisation with a max. of 24 points for the indication of volume (e.g. litres) in non-linear tanks. Bearing charts for cylindrical horizontal tanks and spherical tanks are pre-programmed.
Min./max. value memory	The highest and lowest values reached during operation can be displayed.

Additional functions DA 12/14

Analogue output 2	0-10 V, galvanically isolated
Switching outputs	Relay contacts: 2 x (DA 12)/ 4 x (DA 14) voltage-free changeover contact (adjustable switching hysteresis) Contact rating: AC 250 V, 2 A, 100 VA

Your specialist distributor

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Version	Part no.
Digital display units DA 10	31281
Digital display units DA 12 (2 relay contacts)	31282
Digital display units DA 14 (4 relay contacts)	31283



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