

# Digital Indicators DA 10/12/14

*Universally applicable digital indicators for electronic transducers.*



- **5 digit graphic-LC-display**
- **Text orientated user programming**
- **Linearisation for volume indication (24 points)**
- **Integrated memorised dip charts**
- **Choice of measurement units**
- **Universal power supply**
- **Integrated power supply for transducers**
- **Switch outputs (DA 12/14)**

The universal measurement input can be configured as either current or voltage with the user friendly programming. Any connected measurement transducers (e.g. for pressure, level ...) are supplied with a galvanically separated 20 Volt DC. For level measurement applications the tank volume in litres can be calculated using a 24 point linearisation programme.

Tank tables for horizontal cylindrical as well as spherical tanks are stored in the memory. Even the basic DA 10 unit is

supplied in standard form with a galvanically isolated analogue current output. Depending on the model, up to 4 voltage free relay outputs for level switching and two galvanically isolated analogue outputs are available. The IP 65 high degree of front panel protection enables the units to be used in damp environments. These indicators obviate to a great extent the need for additional power supplies, level switches or other computing equipment.

## Technical Specifications

### Display

5 digit graphical LC-Display, backlit (white), text-based user interface, user interface language (german/english, french), selectable units

### Measuring range

± 99.999 digits (min. and max. values user defined)

### Linearity

± 0,1 % of measuring range

### Resolution

Decimal point position as required

### Response time

< 0,2 s

### Ambient temperature

-10 °C/+55 °C

### Voltage supply

AC/DC 20-253 V

### Sensor supply

integrated, galvanically isolated power supply for transducer: DC 20 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 housing  
H x W x D: 96 x 48 x 135 mm

### Panel cutout

H x W: 92 x 45 mm

### Protection (front)

IP 65 (EN 60529)

### Electrical connection

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. Tables for cylindrical, vertical tanks and ball-shaped tanks are stored.

### Min.-/max. value memory

Stores and indicates the highest and lowest values attained during operation



### Additional functions DA 12

#### Analogue output 2

0-10 V, galvanically isolated

#### Switching outputs

Relay contacts, 2x voltage-free changeover (switching hysteresis can be set)  
Contact load: AC 250 V 2A 100 VA

### Additional function DA 14

#### Analogue output 2

0-10 V, galvanically isolated

#### Switching outputs

Relay contacts, 4x voltage-free, either normally open or normally closed changeover (switching hysteresis can be set)  
Contact load: AC 250 V 2A 100 VA

Type	Pt.-No.
DA 10	31281
DA 12	31282
DA 14	31283

Your distributor: