



## Universal Digital Display A075

### Special features:

- 100 mm (or 57 mm) digit height available
- Bright, well visible displays
- Short-circuit-proof analog output (also linearized)
- High interference resistance due to overvoltage protection and active filter at the input
- Direct connection of an L-probe for oxygen measurement
- Frequency and pulse input
- Computing functions
- Options:
  - up to 2 limit values
  - reciprocal display
  - magnifying function

### Function:

The display unit is used for measuring and displaying different physical variables such as temperature, humidity, pressure, flow, oxygen etc. The consistent modular construction allows the unit to be adapted individually to customer requirements.

Displays with a greatly improved efficiency enable a clearly visible display of the measured values.

With the 100 mm high display, the unit is excellently suited to all applications in which good visibility from a great distance is required (e.g. workshops and storerooms, schools and institutes).

## Technical Data:

### Construction:

Polycarbonate housing (light grey) for wall mounting

### Protection type:

Front IP 65 according to ICE 529

### Dimensions:

400 x 300 x 170 mm  
(wxhxd)

### Connection:

Connector with screw terminal  
Wire cross section: max. 2.5 mm

### Auxiliary voltage:

115 or 230 Vac  $\pm 10\%$ /50-60 Hz

### Power consumption:

approx. 25 VA

### Measuring input:

- mV, uA, mA (also alternating quantities)
- various thermoelements and resistance thermometers
- resistance variables
- frequency and pulse input (also for measuring the period)
- L-probe (oxygen measurement)

### Measuring rate:

3 measurements/second

### Output:

Short-circuit-proof analog output  
e.g. 1 mV/°C or 0...10 Vdc (max 5 mA) or 0...20 mA or 4...20 mA (max. load 10 Vdc) or according to customer specification (active current limiting e.g.  $\pm 23$  mA)

Pulse output for external counter  
(e.g. as volume counter for flow volume)

**Note: Only voltage values can be output if a thermoelement input is linearized.**

### Display:

4-digit, 7-segment display with sign

### Digit height:

100 mm or 57 mm (optional)

### Climate:

Storage: -10...+70 °C  
Operation: 0...60 °C

### Other features:

- active 2nd order filter for effective disturbance signal suppression; (e.g. 50 Hz signal is reduced by more than 70 dB).
- end value (maybe zero or power adjustment) adjustable internally.
- overflow indicator

### Options:

- integrated shearing pin and compensating device in thermoelement input
- linearization of thermoelements and Pt 100 resistance thermometers
- ac voltage and ac measurement by active rectifiers
- reciprocal display (display = 1/input signal)
- magnifying function (e.g. 0...20 mA = display 800...1200 °C)
- calculation of 1 or two inputs (summation, difference formation, multiplication, division, root extraction, logarithmizing, delogarithmizing)
- up to 2 limit values  
Note: limit values internally adjustable
- display mode:
  - limit value 1, limit value 2 or actual value selectable by internal switch
- load capacity of the contacts:  
230 V/6 A
- contacts as changeover contacts

All specifications subject to change without prior notice.