

Large displays

For standard signals $\pm 10\text{ V}$ or $\pm 20\text{ mA}$

Large 57 mm LED display, 3, 4 or 5-digits

D060A, D065A



D065A - large display

Technical data - electrical ratings

| | |
|----------------------------|--|
| Voltage supply | 100...240 VAC $\pm 10\%$ (50/60 Hz) |
| Power consumption | 3.5 VA per digit |
| Sensor supply | 22 V $\pm 5\text{ V}$ / max. 30 mA |
| Number of digits | 3-digits 4-digits 5-digits |
| Digit height | 57 mm |
| Display range | -19999...99999 ("OuE" to signal overflow) |
| Display refresh | 250 ms |
| Function | Digital display of 1 analog measured value |
| A/D transformer | Principle $\Sigma\Delta$ Resolution 16 bit Measuring rate 25/s Measuring accuracy $\pm(0.1\% + 3\text{-digit})$ Temp. coeffic. 100 ppm/ $^{\circ}\text{C}$ |
| Analog input | Current or voltage |
| Programmable parameters | Measuring range Display range can be linearised Decimal point Relay outputs with time delay or hysteresis Display color Limits for alarm outputs |
| Data memory | >10 years in EEPROM |
| Outputs relay | Change-over contact, floating |
| Standard DIN EN 61010-1 | Protection class II Overvoltage category II Pollution degree 2 |
| Emitted interference | DIN EN 61000-6-3 |
| Interference immunity | DIN EN 61000-6-2 |

D060A

Features

- Current or voltage input $\pm 20\text{ mA}$, $\pm 10\text{ V}$
- LED display, 3-color for D065A
- Clearly legible in 30 m distance
- Display range can be linearised
- Programmable parameters

Technical data - electrical ratings

| | |
|--------------|---|
| Display | LED, 7-segment display red |
| D065A | |
| Display | LED, 7-segment display, 3 colors - red, green, amber |

Technical data - mechanical design

| | |
|----------------------|---|
| Ambient temperature | 0...+50 $^{\circ}\text{C}$ |
| Storage temperature | -10...+60 $^{\circ}\text{C}$ |
| Relative humidity | 95 % non-condensing |
| Connection | Plug-in screw terminal connector MIL-connector, 3-pin |
| Core cross-section | 1.5 mm ² |
| Operation / keypad | 3 short-stroke keys on lower side |
| Housing type | Surface mount housing with mounting bracket |
| Housing colour | Black |
| Dimensions W x H x L | 210 x 125 x 120 mm (3-digits) 290 x 125 x 120 mm (4-digits) 290 x 125 x 120 mm (5-digits) |
| Mounting | Surface mount housing Wall mount with mounting angle |
| Weight approx. | 2.5 kg |
| Material | Housing: aluminium |

D060A

Protection DIN EN 60529 IP 41

D065A

Protection DIN EN 60529 IP 65

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Part number

Display, red

D060A.1 S4A01

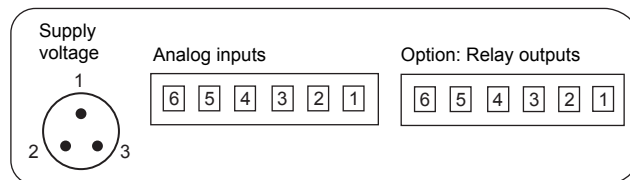
Display
3 3-digits
4 4-digits
5 5-digits

Display red, green, amber

D065A.1 S4E01

Display
3 3-digits
4 4-digits
5 5-digits

Connection diagram



Terminal assignment

Inputs

Voltage supply

| Terminal | Assignment |
|----------|----------------|
| 1 | Voltage supply |
| 2 | Voltage supply |
| 3 | Ground |

Analog inputs

| Terminal | Assignment |
|----------|-----------------|
| 1 | Ground |
| 2 | IN - |
| 3 | IN + (VDC) |
| 4 | IN + (mADC) |
| 5 | Sensor supply + |
| 6 | Sensor supply - |

Outputs

Alarm outputs / two relay

| Terminal | Assignment |
|----------|-----------------|
| 1 | normally closed |
| 2 | changeover |
| 3 | normally open |
| 4 | normally closed |
| 5 | changeover |
| 6 | normally open |

Inputs and outputs

Analog input

| Signal | Resolution | Input resistance |
|--------------------|------------------|------------------|
| $\pm 10\text{ V}$ | 0.5 mV | 1 M Ω |
| $\pm 20\text{ mA}$ | 10 μA | 12 Ω |

Relay outputs

| | |
|----------------------------|---------------|
| Switching voltage max. | 60 VAC / VDC |
| Switching current max. | 2 A |
| Switching performance max. | 150 VA / 30 W |