

Large displays

For temperature

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

D060T, D065T



D065T - large display

Technical data - electrical ratings

Voltage supply	100...240 VAC \pm 10 % (50/60 Hz)
Power consumption	3.5 VA per digit
Number of digits	3-digits 4-digits 5-digits
Digit height	57 mm
Display range	-19999...99999 ("OuE" to signal overflow)
Display refresh	500 ms
Function	Digital display of 1 analog measured value
A/D transformer	Principle $\Sigma\Delta$ Resolution 16 bit Measuring rate 25/s Measuring accuracy: Pt100 1°: \pm (0.1% +1-digit) Pt100 0.1°: \pm (0.1% +3-digits) Thermoc. 1°: \pm (0.4% +1-digit) Thermoc. 0,1°: \pm (0.1% 0.5-digits) Temp. coeffic. 100 ppm/°C
Analog input	Temperature: Pt100, thermocouples J,K,T
Programmable parameters	Measuring unit Resolution Display offset 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

Features

- Temperature input: Pt100, thermal element J,K,T
- Display in °C, 1/10 °C, °F or 1/10 °F
- LED display, 3-color for D065T
- Clearly legible in 30 m distance
- Programmable parameters

Technical data - electrical ratings

Interference immunity	DIN EN 61000-6-2
D060T	
Display	LED, 7-segment display red
D065T	
Display	LED, 7-segment display, 3 colors - red, green, amber

Technical data - mechanical design

Ambient temperature	0...+50 °C
Storage temperature	-10...+60 °C
Relative humidity	95 % non-condensing
Connection	Plug-in screw terminal connector MIL-connector, 3-pin Connector D-SUB, 9-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
D060T	
Protection DIN EN 60529	IP 41
D065T	
Protection DIN EN 60529	IP 65

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Part number

Display, red

D060T.1 S4A01

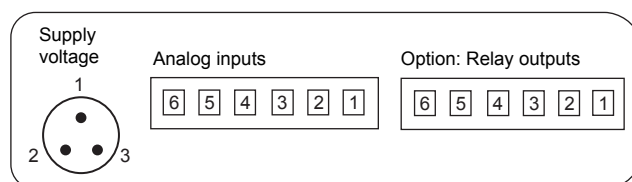
Display
3 3-digits
4 4-digits
5 5-digits

Display red, green, amber

D065T.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	Pt100 Common / Thermocouple -
3	Pt100
4	Pt100 / Thermocouple
5	-
6	-

Outputs

Alarm outputs / two relay

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

The diagram shows two relay connections. Relay 1 is connected to terminals 1, 2, and 3. Relay 2 is connected to terminals 4, 5, and 6. Each relay connection is shown with a switch symbol and a terminal block.

Inputs and outputs

Thermocouple	Resolution (°)	Resolution (0.1°)
Pt100	-200...+800 °C -328...+1472 °F	-100.0...+200.0 °C -148.0...+392.0 °F
Thermocouple J	-50...+850 °C -58...+1562 °F	
Thermocouple K	-50...+1250 °C -58...+2282 °F	
Thermocouple T	-200...+400 °C -328...+752 °F	

Analog input

Cold junction compensation	0...50 °C
Measuring current Pt100	<1 mA
Line resistance	Max. 20 Ω

Relay outputs

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