

## evaluation devices

### universal digital display UDA 50-...-U

#### features

- 4-digit universal LED digital display, red display, other colors on request
- display range from -1999 to 9999, decimal point programmable
- front Programmable via 3 buttons
- min / max-value acquisition
- degree of protection IP65 (see installation and assembly note)
- electrical connection with plug-in terminals

#### technical data

dimensions	<b>housing</b> B48 x H24 x T36 mm, (with plug-in terminal T=54 mm) mounting cutout 45,0 <sup>+0,8</sup> x 22,2 <sup>+0,6</sup> mm fixing screw for wall thicknesses up to 3 mm housing material PC polycarbonat, black sealing material EPDM, 65 Shore, black degree of protection front IP65 standard, back IP00 weight about 100 g connection plug-in terminal; cable cross-section up to 2,5 mm <sup>2</sup>		
display	display 4-digits digit height 10 mm segment color red (standard), optional available in green, blue, orange display range -1999 up to 9999 limit values optical display flashing overflow horizontal bars at the top underflow horizontal bars at the bottom display time/measurement time 0.1 to 10.0 seconds		
measuring input	signal measuring range	measuring span	Resolution
	Voltage 0...10 V (Ri > 100 kOhm)	0...12 V	≥ 14 bit
	Voltage 0...2 V (Ri ≥ 10 kOhm)	0...2,2 V	≥ 14 bit
	Voltage 0...1 V (Ri ≥ 10 kOhm)	0...1,1 V	≥ 14 bit
	Voltage 0...50 mV (Ri ≥ 10 kOhm)	0...75 mV	
	Power 4...20 mA (Ri = ~125 Ohm)	1...22 mA	
	Power 0...20 mA (Ri = ~125 Ohm)	0...22 mA	
	Pt100-3-wire -50...200°C	-58...392°F	0,1°C / 0,1°F
	Pt100-3-wire -200...850°C	-328...1562°F	1°C / 1°F
	Pt1000-2-wire -200...850°C	-328...1562°F	1°C / 1°F
	Thermo K -270...1350°C	-454...2462°F	1°C / 1°F
	Thermo S -50...1750°C	-328...3182°F	1°C / 1°F
	Thermo N -270...1300°C	-454...2372°F	1°C / 1°F
	Thermo J -170...950°C	-274...1742°F	1°C / 1°F
	Thermo T -270...400°C	-454...752°F	1°C / 1°F
	Thermo R -50...1768°C	-58...3214°F	1°C / 1°F
	Thermo B 80...1820°C	176...3308°F	1°C / 1°F
	Thermo E -270...1000°C	-454...1832°F	1°C / 1°F
	Thermo L -200...900°C	-328...1652°F	1°C / 1°F
	Frequency 0...10 kHz	0...10 kHz	0,001 Hz /
	NPN 0...3 kHz	0...3 kHz	0,001 Hz /
	PNP 0...1 kHz	0...1 kHz	0,001 Hz
	Rotational speed 0...9999 1/min	0...9999 1/min	0,001 1/min
	Counter 0...9999 (Prescaler until 1000)		
	Pulse input TTL / Low <2 V / High >3 V HTL/PNP / Low <6 V / High >8 V		
	NPN / Low <0,8 V / High about resistance Namur / Low <1,5 mA / High >2,5 mA		
	Reset input Aktiv <0,8 V		
output	semiconductor switching points Low-side / NPN: max. 28V, 100 mA High-side / PNP: UV -3V, 100 mA		
environmental con.	working temperature 0 to + 60°C (option -40°C...+80°C) storage temperature -20 to + 80°C climatic resistance relative humidity 0-85 % on average without condensation		



UDA 50-5-U-0

ordercode UDA 50...

order-example: UDA 50-5-U-0

#### power supply

-5 9...28VDC

#### sensor input

-U universal input and 2 digital switching outputs

#### option

-0 no option