

UNIVERSAL DISPLAY UD-720

DESCRIPTION

The UD-720 is a programmable digital panel display used for the measurement of standard sensor and analog signals applied in automation. It is ideally suited for use with our range of instrumentation such as pressure transmitters, temperature probes and TDS controllers.

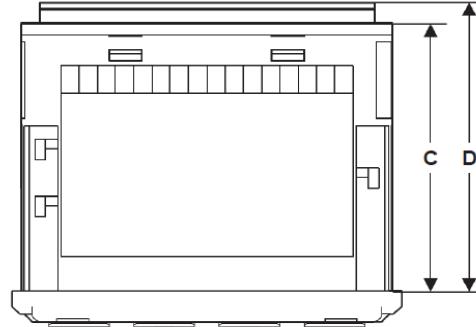
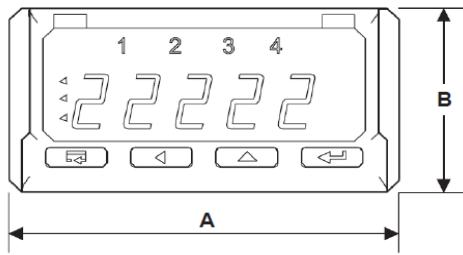
MAIN FEATURES

- Measuring inputs for resistance thermometer (RTD), thermocouples (TC), 0/4 to 20 mA, 0 to 10 V, 0 to 60 mV and resistance (Ω).
- 2 NO relay alarm outputs (standard) plus 2 change-over relay alarms (optional).
- 6 types of alarm functions.
- 24 V DC loop power supply output.
- 0/4 to 20 mA and 0 to 10 V outputs for retransmission of any of the measured inputs (optional).
- Three color display (14 mm high) with programmable color settings based on the measured value.
- 21-point individual characteristic function for input rescaling and conversion.
- Galvanically isolated inputs and outputs.
- Password protection.
- Fully programmable from the front panel.
- RS-485 Modbus RTU communication (optional).
- IP rating IP 65.



TECHNICAL DATA

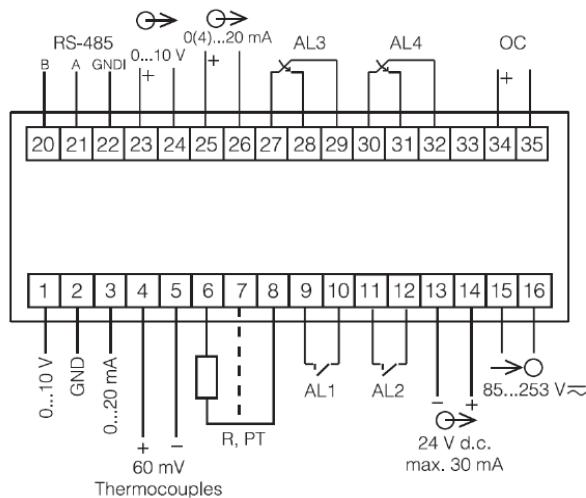
GENERAL			EXTERNAL FEATURES		
Supply Voltage			85 to 253 V AC/DC or 20 to 40 V AC, 20 to 60 V DC		
Temperature			Ambient: - 25 to 55 °C; Storage: - 30 to 70 °C		
Humidity			< 85% without condensation		
Operating position			Any		
External magnetic field			0 to 400 A/m		
INPUT *			OUTPUT		
TYPE	RANGE	CLASS	TYPE	PROPERTIES	LOAD CAPACITY
PT100	-200 to 850 °C	0.1	Relay (voltageless)	NO contacts	0.5 A / 230 V AC
PT500	-200 to 850 °C	0.1		Change-over contacts	0.5 A / 230 V AC
PT1000	-200 to 850 °C	0.1	OC open-collector	Passive NPN	Max. 30 V DC, 30 mA
Fe-CuNi (J)	-100 to 1200 °C	0.1	Continuous voltage	0 to 10 V	Rload ≥ 500 Ω
NiCr-NiAl (K)	-100 to 1372 °C	0.1	Continuous current	0/4 to 20 mA	Rload ≤ 500 Ω
PtRh10-Pt (S)	0 to 1767 °C	0.1	Transducer supply	24 V DC	Max. 30 mA
PtRh13-Pt (R)	0 to 1767 °C	0.1			
NiCr-CuNi (E)	-100 to 1000 °C	0.1			
NiCrSi-NiSi (N)	-100 to 1300 °C	0.1			
Current input (I)	-20 to 20 mA	0.1			
Voltage input (U)	-10 to 10 V	0.1			
mV input (mV)	0 to 60 mV	0.1			
* Additional errors: Due to automatic compensation of the reference junction temperature: ≤ 1 °C. Due to automatic compensation of the cable resistance for RTDs: ≤ 0.5 °C. Due to automatic compensation of the cables for resistance measurement: ≤ 0.2 Ω. From temperature changes: 100% of the class / 10 K.					
SAFETY AND COMPATIBILITY REQUIREMENTS					
Electromagnetic Compatibility	Noise immunity acc. to EN 61000-6-2				
	Noise emissions acc. to EN 61000-6-4				
Pollution level	Level 2 acc. to EN 61010-1				
Installation category	Cat. III acc. to EN 61010-1				
Maximal phase-to-earth operating voltage	Supply circuit: 300 V; Remaining circuits: 50 V acc. to EN 61010-1				
Altitude above sea level	< 2000 m acc. to EN 61010-1				



DIMENSIONS (mm)

MODEL	A	B	C	D	WEIGHT (kg)
UD-720	96	48	67	93 (Max.)	< 0.2 kg

TERMINALS



ORDERING CODES UD-720

Group designation	UD720	.1	.0
UD-720 universal display	UD720		
Power Supply			
85 to 253 V AC/DC		.1	
20 to 40 V AC, 20 to 60 V DC		.2	
Additional Outputs			
No additional outputs			.0
OC open-collector output, RS-485 and analog outputs			.1
OC open-collector output, RS-485, analog outputs and 2 change-over relay outputs			.2