





UNIVERSAL DISPLAY UD-720

DESCRIPTION

The ADCATrol 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 others. The unit features a 24 V DC supply output for transmitters.

MAIN FEATURES

Easy to comission with user-friendly interface.

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.

6 types of alarm functions.

24 V DC supply output to power transmitters and others.

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.

Fully programmable from the front panel.

Password protection.

IP rating IP 65.

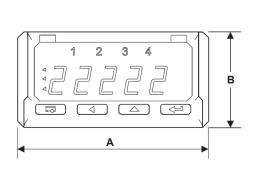
OPTIONS: Change-over relay alarm outputs.

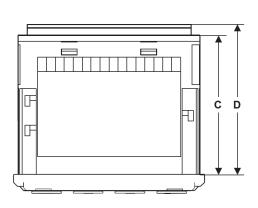
0(4) to 20 mA and 0 to 10 V outputs for retransmission of any of the measured inputs.

RS-485 Modbus RTU communication.

AVAILABLE

MODELS: UD-720.





DIMENSIONS (mm)						
MODEL	Α	В	С	D	WEIGHT (kg)	
UD-720	96	48	67	93	0,2	







TECHNICAL DATA

GENERAL				
Supply voltage	85 to 253 V AC/DC or 20 to 40 V AC/DC			
Ambient temperature	-25 to +55 °C			
Storage temperature	-30 to +70 °C			
IP rating	IP 65 (front); IP 10 (rear)			
Material	Housing in PC/ABS			
Humidity	< 85% without condensation			
Front panel	96 x 48 mm (cutout: 92 x 45 mm)			
Operating position	Any			
External magnetic field	0 to 400 A/m			

OUTPUTS				
	2 NO volt free contacts, 0,5 A @ 250 V AC			
Relay	2 change-over volt free contacts 0.5 A @ 230 V AC			
OC open-collector	Passive NPN, 30 mA @ 30 V DC			
Continuous voltage	0 to 10 V, 500 Ω min.			
Continuous current	0(4) to 20 mA, 500 Ω max.			
Transducer supply	24 V DC, 30 mA max.			

DIGITAL INTERFACE			
Interface type	RS-485		
Protocol	Modbus RTU 8N2, 8E1, 8O1, 8N1		
Baud rate	4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbit/s		

INPUTS *			
PT100	-200 to 850 °C		
PT500	-200 to 850 °C		
PT1000	-200 to 850 °C		
Fe-CuNi (J)	-100 to 1200 °C		
NiCr-NiAl (K)	-100 to 1372 °C		
PtRh10-Pt (S)	0 to 1767 °C		
PtRh13-Pt (R)	0 to 1767 °C		
NiCr-CuNi (E)	-100 to 1000 °C		
NiCrSi-NiSi (N)	-100 to 1300 °C		
Current input (I)	-20 to 20 mA		
Voltage input (U)	-10 to 10 V		
mV input (mV)	0 to 60 mV		

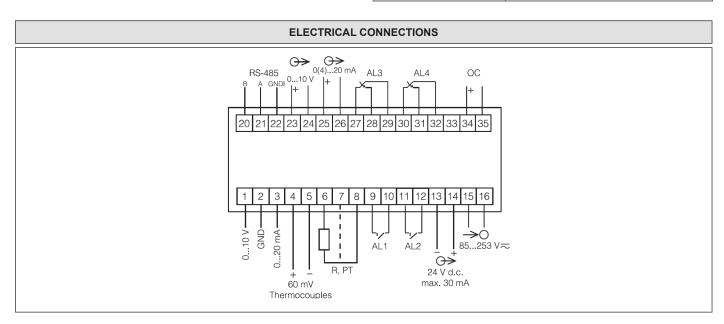
^{*} Class 0,1.

Additional errors:

Due to automatic compensation of the reference junction temperature: $\leq 1^{\circ}$ C. Due to automatic compensation of the cable resistance for RTDs: $\leq 0.5^{\circ}$ C. Due to automatic compensation of the cables for resistance measurement: ≤ 0.2

From temperature changes: 100% of the class / 10 K.

SAFETY AND COMPATIBILITY REQUIREMENTS			
Electromagnetic	Noise immunity acc. to EN 61000-6-2		
compatibility	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		







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/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	