

PD-ADC

Process Display for analog sensors



- **Voltage (e.g. 0 ... 10 V)**
Current (e.g. 4 ... 20 mA)
Voltage divider (Potentiometer)
- **Integrated sensor power supply**
- **6-digit LED display**
- **RS-232 interface**

prodis[®]-ADC는 각도 및 변위를 표시하기 위해 아날로그 위치 센서와 함께 사용하도록 설계되었습니다. 고해상도 A/D 변환기는 전압 또는 전류 출력으로 센서의 신호를 처리합니다. 미터는 미리 설정된 시작/종료 범위 내의 값 또는 인치, mm 또는 도 단위의 값을 표시하도록 프로그래밍할 수 있습니다. 용기 기능 또는 프로그래밍 잠금은 2개의 제어 터미널로 활성화될 수 있습니다. 센서 여자는 미터에서 제공됩니다. 4개의 멤브레인 키를 사용하여 모든 매개변수를 특수 용도에 맞게 프로그래밍할 수 있습니다. 4개의 NPN 오픈 컬렉터 출력이 있는 선택적 비교기 기능을 사용할 수 있으며 그 중 2개는 릴레이 출력이 있습니다.



PD-ADC - Digital Process Display for analog sensors

Specifications

		Order options
Display	6-digit, 7-segment LED, height 14 mm, decimal point programmable	
Counting rate	1 ... 25/s programmable	
Measurement accuracy	±0,05 % f.s.	
Excitation voltage/current	24 V DC ±10%/150 mA, residual ripple 1%SS; 85-250 V AC, 50-60 Hz/180 mA max.	1 24VDC 230VAC
Sensor excitation	24 V DC/300 mA / voltage divider 5 V, 10 mA	
Input	Two channels each for: Voltage: 0 ... 10 V; 0.5 ... 4.5 V, 0.5 ... 10 V, max. 24V, Input resistance: 20kΩ Current: 0...20 mA, 3 wires; 4 ... 20 mA 2 wires/3 wires Load 100 Ω, I _{max} <30 mA Voltage divider R _{min} =500Ω, 0 ... 5 V One input or the difference between both inputs can be chosen by programming.	
Control input	2 control inputs 24 V, active low	
Comparator output (option)	Relay: 250 V AC/5 A, 30 V DC/5 A NPN: 24 V max./50 mA to GND	
Options	Comparator Desktop version	2 REL2 DT
Connection	Terminal strip 12 pole, excitation 3 pole	
Temperature coefficient	±20 x 10 ⁻⁶ / °C	
Operating temperature	-10...+40 °C	
Storage temperature	-20...+85 °C	
Weight	24 V DC: approx. 250 g 230 V AC: approx. 400 g	
Protection class	Front IP60, rear IP40	
Humidity	Max. 80 % R. H., non-condensing	
Safety of equipment	Directive 2014/35/EU: EN 61010-1:2010	
EMC	Directive 2014/30/EU: EN 61326-1:2013	

Programmable parameters / value range

Value range offset	-999999 to +999999
Divisor, multiplier	0 to 999999
Other programmable parameters	Decimal point position, display brightness
Control input terminals	Key lock, display value hold, tare function

Interface RS-232

Level	RS-232: ±8 V, galvanically isolated
Data format	1 start bit, 8 data bits, 1 stop bit, no parity
Transmission rate	9600 Baud

Order code

PD-ADC – **1** – **2**

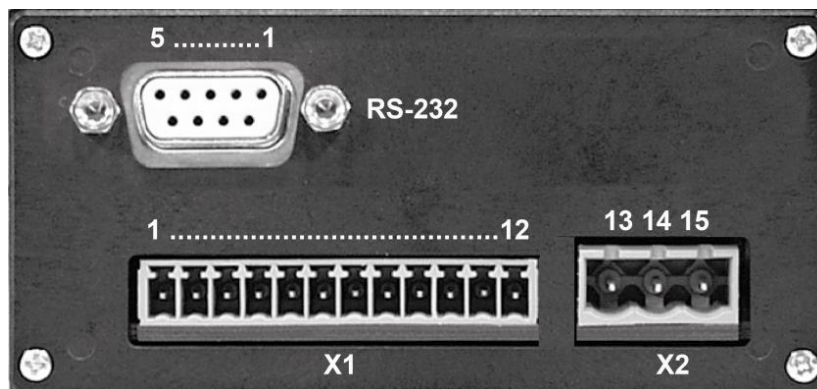
Order example: PD-ADC – 24VDC – REL2

Wiring basic unit without comparator output

Signals	Connector X1 Pin no.	Connector X2 Pin no.
Sensor excitation +UB 24 V	1	
Sensor excitation 0 V (GND)	2	
Control input terminal 1: tare function	3	
Control input terminal 2: programming lock	4	
Voltage input terminal (e.g. 0 ... 10 V), channel 1	5	
Voltage input terminal (e.g. 0 ... 10 V), channel 2	6	
Current input terminal (e.g. 0 ... 20 mA), channel 1	7	
Current input terminal (e.g. 0 ... 20 mA), channel 2	8	
Voltage divider input terminal, channel 1	9	
Voltage divider input terminal, channel 2	10	
Reference voltage 5 V for voltage divider	11	
GND	12	
PD-ADC-24VDC Excitation +24 V Excitation 0 V (GND)		13 14
PD-ADC-230VAC Excitation Protective ground		13, 15 14

Signals	D-Sub, pin no.
TxD	2
RxD	3
GND	5

Rear view without comparator output

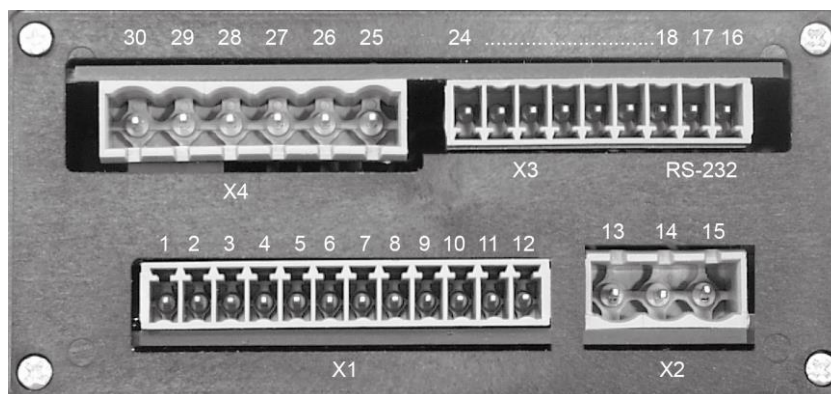


Wiring basic unit with comparator output

Signals	Connector X1 Pin no.	Connector X2 Pin no.
Sensor excitation +UB 24 V	1	
Sensor excitation 0 V (GND)	2	
Control input terminal 1: tare function	3	
Control input terminal 2: programming lock	4	
Voltage input terminal (e.g. 0 ... 10 V), channel 1	5	
Voltage input terminal (e.g. 0 ... 10 V), channel 2	6	
Current input terminal (e.g. 4 ... 20 mA), channel 1	7	
Current input terminal (e.g. 4 ... 20 mA), channel 2	8	
Voltage divider input terminal, channel 1	9	
Voltage divider input terminal, channel 2	10	
Reference voltage 5 V for voltage divider	11	
GND	12	
PD-ADC-24VDC Excitation +24 V Excitation 0 V (GND)		13 14
PD-ADC-230VAC Excitation Protective ground		13, 15 14

Signals	Connector X3 Pin no.
TxD	17
RxD	16
GND	18

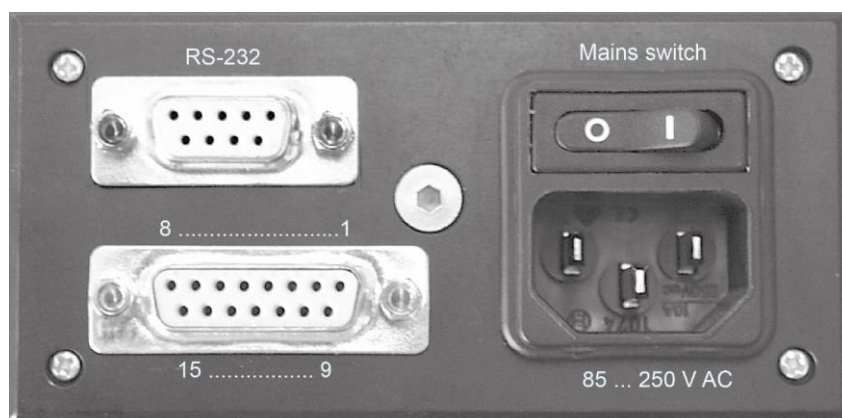
Rear view with comparator output (option „REL2“)



Comparator function (option)

Comparator	Comparator output				
	NPN collector	Connector X3 Pin no.	Relay	Connector X4 Pin no.	LED
Comparator 1	NPN1	20	Relay 1 NO NC Common	25 27 26	LED1
Comparator 2	NPN2	21	Relay 2 NO NC Common	28 30 29	LED2
Comparator 3	NPN3	22			
Comparator 4	NPN4	23			
	NPN GND	24			
	NPN U _B (+24V)	19			

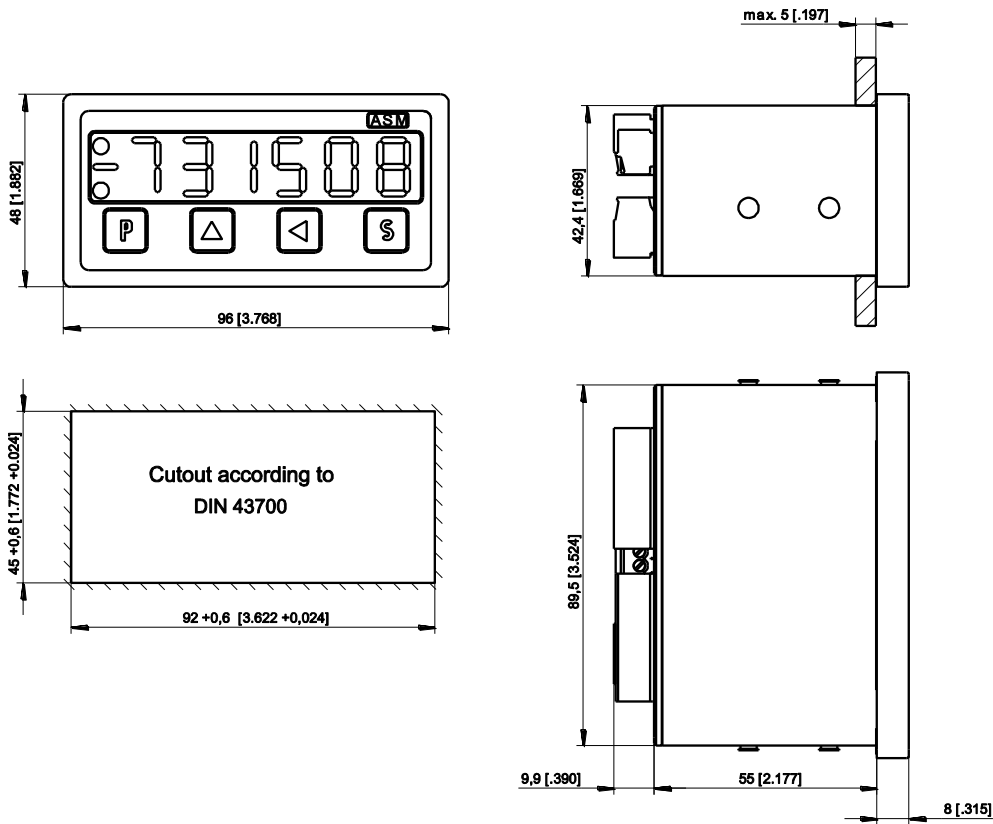
Desktop version (option „DT“)



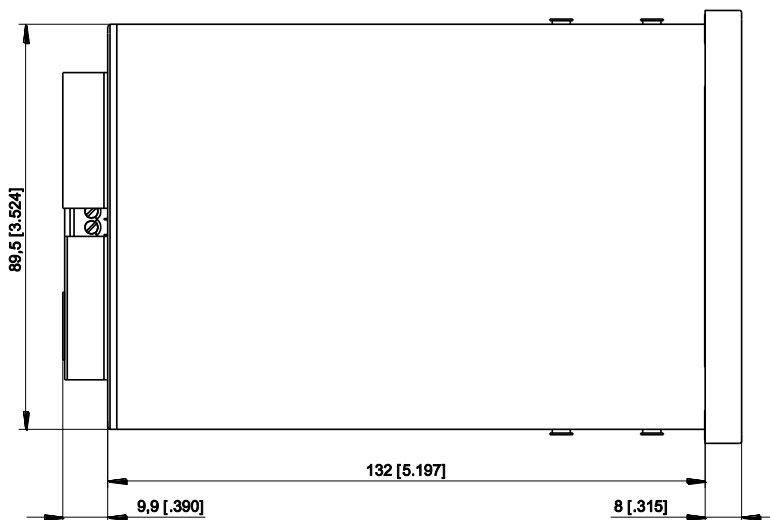
Wiring of connector X1 see table "Wiring basic unit".

Dimensions

PD-ADC-24VDC



PD-ADC-230VAC



Dimensions in mm [inch]

Dimensions informative only.

For guaranteed dimensions consult factory.