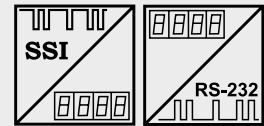


PRODIS® PD-SSI Digital Process Meter for Sensors with SSI output



- For POSICHRON® position sensors with SSI output
- Integrated sensor supply
- 6-digit LED display
- RS-232 interface
- Easy programming



Description

PRODIS-SSI is designed for use with SSI position sensors to display angle and displacement. Via the CLOCK lines, a sequence of pulses will be transmitted, the input DATA lines will read the sensor's serial bit sequence. The meter is programmable to display values within preset start/end range or values in units as inches, mm or degrees. A tare function or programming lock can be activated with two control terminals.

Sensor excitation is supplied by the meter. With four membrane keys, all parameters can be programmed for the special applications.

Specifications		
Display	6-digit, 7-segment LED, 14 mm high, decimal point programmable	
Sampling rate	100/s	
Excitation voltage/current	24 V DC $\pm 10\%$ /150 mA, residual ripple 1% _{pp} ; 85-250 V AC, 50-60 Hz/180 mA max.	
Sensor excitation	24 V DC/300 mA or 5 V DC/800 mA	
Inputs	DATA, $\overline{\text{DATA}}$ (RS422)	
Output	CLOCK, $\overline{\text{CLOCK}}$ (RS422)	
Control inputs	2 control inputs 24 V, active low	
Connection	Terminal strip 12-pole, excitation 3-pole	
Operating temperature	-10 ... +40 °C	
Storage temperature	-20 ... +85 °C	
Weight	24 V DC: approx. 250 g; 230 V AC: approx. 400 g	

Order Code PRODIS-SSI

Model name

Excitation Voltage

24VDC = 24 V DC

230VAC = 85...250 V AC

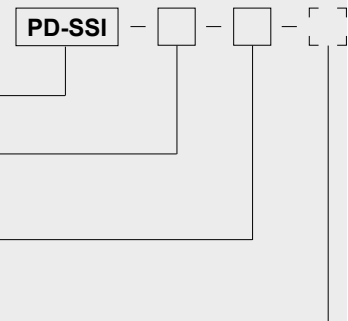
Sensor Excitation

G24V = 24 V DC

G5V = 5 V DC

Options

DT = Desktop version



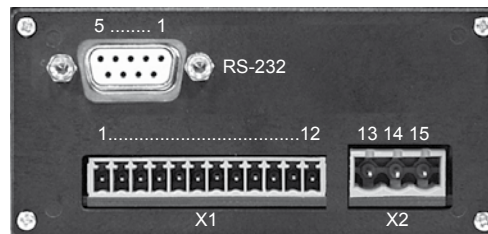
Order example: PD - SSI - 230VAC - G24V

PRODIS® PD-SSI Digital Process Meter for Sensors with SSI output



Specifications (continuation)	Protection class	Front IP60, back IP40	
	Humidity	Max. 80 % r.h., non condensing	
	Safety of equipment	Directive 73/23/EWG: DIN EN61010:2002-03	
	Electromagnetic compatibility, EMC	Directive 89/336/EWG	
Programmable Parameters / Value range	Value range offset	-999999 to +999999	
	Divisor, multiplier	0 to 999999	
	Other programmable parameters	Decimal point position, display brightness	
	Programmable SSI parameters	Gray/dual code, sign, sampling rate, data format	
	Control inputs	Key lock, display value hold, tare function	
Wiring basic unit	Signals	Connector X1 pin no.	Connector X2 pin no.
	Sensor excitation +U _B (24 V or 5 V)	1	
	Sensor excitation 0 V (GND)	2	
	Control input 1: tare function	3	
	Control input 2: programming lock	4	
	Not used	5 / 6	
	Output CLOCK	7	
	Output $\overline{\text{CLOCK}}$	8	
	Input DATA	9	
	Input $\overline{\text{DATA}}$	10	
	Do not connect!	11	
	GND	12	
	PD-SSI-24VDC Excitation +24 V		13
	Excitation 0 V (GND)		14
	PD-SSI-230VAC Excitation		13, 15
Protective ground		14	

Rear view without
comparator Output



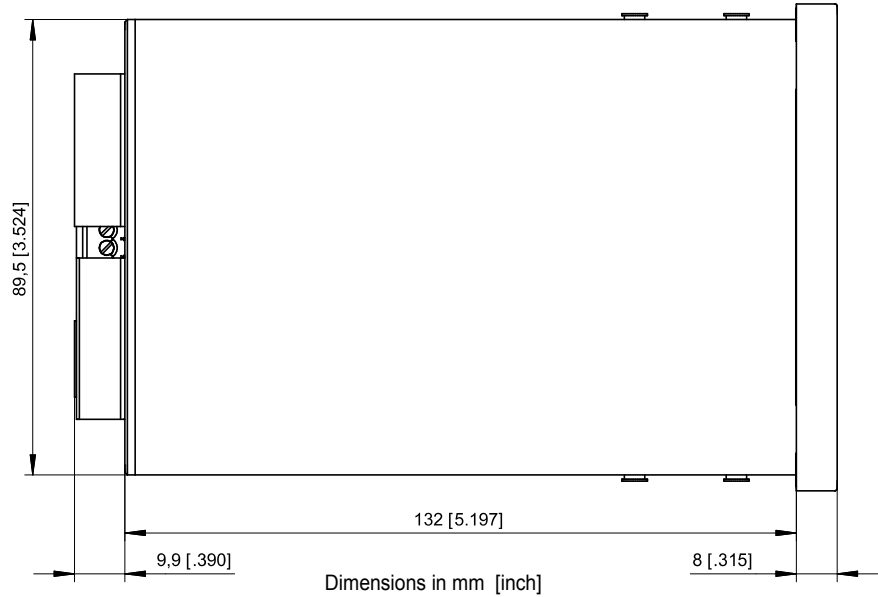
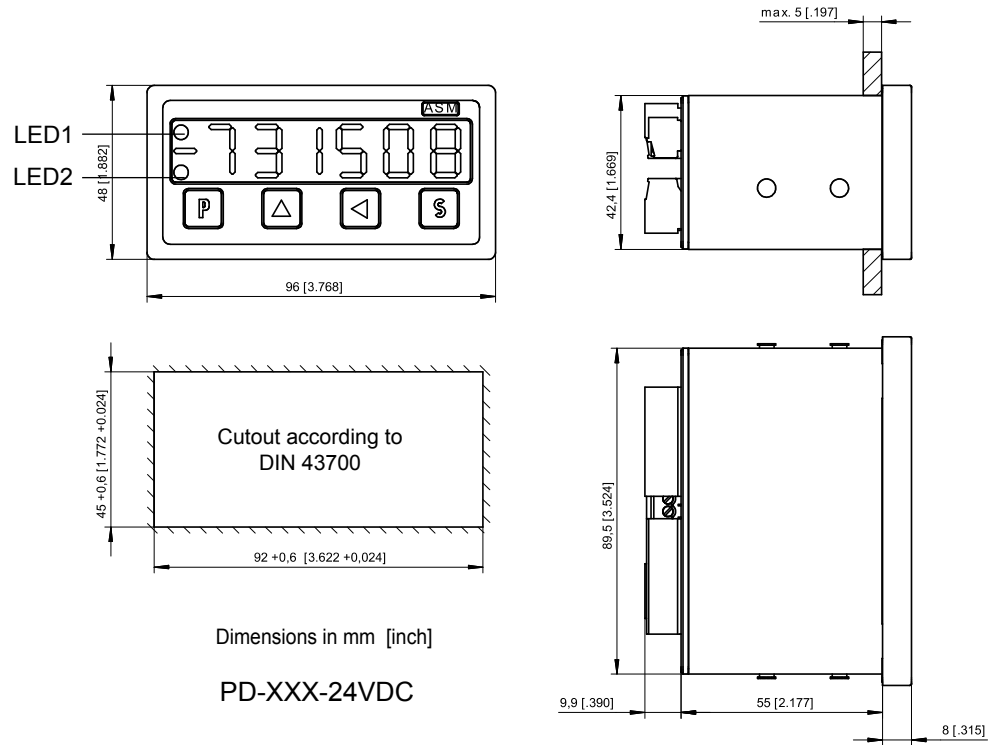
RS-232 interface	Level	RS-232: ±8 V, galvanically isolated	
	Data format	1 start bit, 8 data bits, 1 stop bit, no parity	
	Transmission rate	4800 / 9600 / 19200 / 115200 Baud	
	Signals	Connector X3, pin no.	D-Sub, pin no.
	TxD	17	2
RxD	16	3	
GND	18	5	

Outline drawings see the following pages.

PRODIS® Digital Process Meter



Outline drawing



Dimensions informative only.
For guaranteed dimensions
consult factory.