Obere Schloßstr.131 73553 Alfdorf **☎** 07172 /93730-0 Fax 07172 /93730-22

Programmable Industry-Digital Built-In Measuring Device

Type PAX

- O Display Freely Scaleable
- Extendable by up to3 Output Cards
- Q 20 Measurements/s
- O Min.-Max. Value Display
- Short Length Design (Depth 104 mm)
- Level of Protection IP 65 on Front Side



DESCRIPTION:

PAX is a very flexible and accurate laboratory device which is also excellently qualified for rough industrial applications due to its very robust synthetic housing and the high IP 65 level of protection.

The device is programmed either by PC or by 5 keys, directly. Additional functions e.g. Minimum-Maximum memory, tare, delete memory....., can be performed by keys or 3 programmable inputs. The programmable inputs can be adjusted by jumpers PNP- or NPN.

For **PAXD and PAXS** a linearization of up to 16 steps is possible. In addition, PAXD and PAXS include a summation counter. Both device have an easy to be changed backlit physical unit display.

PAXD processes a wide range of DC voltage-, DC current- and resistance signals. The range is being adjusted by jumpers and in the programming. Thus, the unit is especially applicable for sensors with active output signals.

PAXS processes input signals in the range of ± 24 mV DC (dissolution 1 μ V) or ± 240 mV DC (dissolution 10 μ V) and is mainly used with passive sensors.

PAXI is a counter-tachometer unit. It processes impulses in the range of 0.01 Hz up to 34 kHz. Input signals of NPN-, PNP-sensors, CMOS, TTL, potential-free contacts and permanent magnetic sensors can be processed. The device has 3 counters and a tachometer which are scaleable independently from each other.

The decimal point can be selected freely. By a rounding factor and digital filtration the display is being soothed if necessary.

The device can be equipped, or at a later time upgraded, with various output cards. At the Max., the device can be provided with each one limit value-, an analog output- and an interface slot.

Each PAX unit is also available as a LPAX-model. LPAX has a large display (38 mm height LED-unit) which is legible from a distance of 20 m. LPAX can be delivered either as an assembly kit or already mounted in a 28 TE-table housing. (See PAX-TG data sheet).

Email: <u>info@lorenz-sensors.com</u> Homepage: <u>www.lorenz-sensors.com</u>

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TECHNICAL DATA:

Туре	PAXD0000	PAXD0010	PAXS0000	PAXS0010	PAXI0000	PAXI0010	
Art. No.	100859	100860	100857	100858	104884	105422	
Supply	85250 V AC	1136 V DC	85250 V AC	1136 V DC	85250 V AC	1136 V DC	
	50/60 Hz	11 W or	50/60 Hz	11 W or	50/60 Hz	11 W or	
	15 VA	24 V AC ±10%	15 VA	24 V AC ±10%	15 VA	24 V AC ±10%	
		50/60 Hz		50/60 Hz		50/60 Hz	
		15 VA		15 VA		15 VA	
Measuring Rate	20 Measurements/s						
Reaction time	0.2 s for display of 99% of final value, max. 0.7 s (prolongs at Max. 0.6 s; at reset, gate and				reset, gate and		
		increase of digital filtration)				cache memory, the device	
		reacts 25 µs				ter the next ac-	
	tive flank of the assigned				U		
	counter. After max. 100 ms a						
		new flank will be detected at the					
		user input.					
Display	5-digit, height 14 mm (LPAX: 38 mm), red LED, unit free definable			6-digit, height 14 mm (LPAX:			
				38 mm),	red LED		
Sensor Side							
Excitation	24 V D(C 50 mA	10 V DC 125 r	mA (5 V 65 mA)	12 V DC	100 mA	
Signal Input /	±2 V / 1	.066 MΩ	±24 mV	/ 100 MΩ	034 kH	z 5 V TTL	

Excitation	24 V DC 50 mA	10 V DC 125 mA (5 V 65 mA)	12 V DC 100 mA
Signal Input /	±2 V / 1.066 MΩ	±24 mV / 100 MΩ	034 kHz 5 V TTL
Impedance	±20 V / 1.066 MΩ	±240 mV / 100 MΩ	
	±20 mA / 11.1 Ω		
	±200 mA / 1.1 Ω		
Disturbance	>60 dB at 50/60 Hz ±1% (can be increased by digital filtration)		-
Rejection NMR			
Common Mode	>100 dB, DC to 120 Hz		-
Suppression			
CMR			

Miscellaneous

Miscellaneous	
Service Tem-	0+45 ℃
perature Range	
Storage Tem-	-40+85 ℃
perature Range	
Operating and	max. 85%, non-condensing
Storage Humid-	
ity	
Electromagne-	Emission: EN 50081-2, Immunity: EN 50082-2, CE conform
tic Compatibility	
Dimensions	97 x 50 x 104 mm (LPAX: 254 x 121 x 118 mm)
(W x H x D)	
Switch-Board	92 x 45 mm (LPAX: 186 x 92 mm)
Segment	
Weight	approx. 0.3 kg (LPAX approx. 1.5 kg)
Level of Pro-	IP 65
tect. Front Side	

Options	Art. No.	Function	
CDC10	100861	Interface Module RS485	
CDC20	100862	Interface Module RS232	
CDL10	100863	Analog Output 010 V or 020 V, 420 mA	
CDS10	100864	2 Limit Value Relay Change-Over Contacts	
CDS20	100865	4 Limit Value Relay Closing Contacts	
CDS30	100866	4 Limit Value Transistor Outputs NPN	
CDS40	100867	4 Limit Value Transistor Outputs PNP	
EVK	101014	Mounting, Wiring and Calibration	
SFPAX100	on request	Programming Software for WINDOWS	
LPAX	on request	PAX-Unit with Large Display (38 mm Height LED-Display)	
PAX-XLS	106872	Measuring and Evaluation Software for EXCEL, only applicable with option RS232	

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