Industry - Counter / Tachometer / Slave display PAXI

- 6-digit, 2 independent counters, 1 sum/difference/slave display, 1 tachometer
- max. 34 kHz, adaptable to all commercially available sensors
- Display for remote and interface systems
- plug-in options: 2 or 4 limit values, analog output: 0/4 to 20 mA, 0 to 10 V
- plug-in options: serial interface: RS485, RS232, PROFIBUS-DP, DeviceNet, Modbus
- Easy programming on the device or via PC
- Min/max value memory, scalable pulse output
- Tachometer with 10-step linearization
- High degree of protection IP 65 (front)
- Dimensions: 97 mm x 50 mm x 104 mm

https://www.wachendorff-prozesstechnik.de/en/PAXI

Description

The PAXI industrial indicator has been designed for harsh industrial use and the extremely robust housing made from a single casting, the high degree of protection IP65 and the high-quality electronics ensure an unusually long service life. The optional plug-in cards (interface, analog output, limit values) offer optimum flexibility. The device is configured quickly and safely either via the PC or directly using 5 buttons. The operator is pleased with the clear user interface with which he can easily record and change all parameters at a glance. With the plug-in options, devices can also be retrofitted.

Product details

Entrance:	NPN, PNP sensors, CMOS, TTL, potential-free contacts, permanent magnet sensors are accepted. Setting via DIP switch. Attenuation adjustable to 50 Hz. Minimum input frequency: 0.01 Hz Max. input frequency Input frequency: up to 34 kHz
a. 1 meter A or B, or 1 tachometer:	Operating mode: Single pulse input, cut-off frequency max. 34 kHz Simple phase discriminator, cut-off frequency max. 22 kHz
b. 2 meters or 1 meter and 1 tachometer:	Operating mode: Single pulse input, max. cut-off frequency 13 kHz Single pulse input + 3rd counter, max. cut-off frequency 12 kHz Simple phase discriminator x1, max. cut-off frequency 7 kHz Simple phase discriminator x1 + 3rd counter, cut-off frequency max. 6 kHz

Note:	**Please note:** The cut-off frequency is reduced when the following functions are used: 2 or 4 limit values (option), Pulse output, 3rd counter, Pulse output with 2-fold evaluation, Phase discriminator with 2-/4-fold evaluation, serial communication. The specified limit frequencies are not affected when using the analog output (option).
Display:	6-digit, 14mm high red LED. Counter: max. + 999,999 or -99,999 in static display, max. +/-99,999,999 in 2 alternating displays (OF 99) (999999)/(OF -99) (999999) Tachometer: Accuracy: +/- 0.01%, period duration measurement, max: 99.999 Min/max value: Display: L12345 or H12345. Slave display: Alphanumeric characters can be sent to the characters can be sent to counter C via the interface. This displays 6 digits: 0 to 9, A, b, C, d, E, F, g, H, I, J, L, N, O, P, q, r, S, t, u, y and z Dot, comma, hyphen (minus) and space
Scaling:	All 3 counters and the speedometer can be scaled independently of each other.
Indicators:	A, B, C: Counter A, B, C SP 1 to 4: Output 1 to 4 is active

Programming on the device:	Programming is possible if the programming lock input is not activated. All necessary parameters can then be set using the 5 front buttons. Programming is organized in individual sections. You are guided through the entry of the individual parameters with short symbols. In addition, parameterization using Crimson 2 software is possible in conjunction with an optionally available USB interface card.	Pluggable relay output cards:	**1.** 2x relay changeover contact 5 A at 120/240 VAC or 28 VDC (ohmic load), at 120 VAC (90 VA inductive load). Service life of the relays is 100,000 cycles at max. load. The service life increases with lower loads. **2.** 4x NO relay 3 A at 240 VAC or 30 VDC (resistive load), at 120 VAC (70 VA inductive load). The service life of the relays is 100,000 cycles at max. load. The service life increases with lower loads.
User inputs:	3 programmable inputs are available available. They can be set to PNP or NPN switching via jumpers. via jumpers. Maximum input 30 VDC. NPN: Active V < 0,9 VDC, Inaktiv V > 2.4 VDC PNP: Active V > 2.4 VDC, Inactive V < 0.9 VDC.	Pluggable transistor output cards:	**1.** 4x NPN-OC transistors: max. 100mA at Vsat = 0.7 V, Vmax 30 V, galvanic isolation of 500 V for 1 minute against the signal input. **2.** 4x PNP-OC transistors: Internal supply: 24 VDC +/-10 %, max. 30 mA all 4 transistors. External supply: max. 30 VDC, 100 mA for each individual transistor.
Pulse output:	freely scalable (factor : 0.0001 to 1.0000), NPN O.C., max. 100 mA, 30 VDC	Pluggable analog output card:	Selectable output signal: 0 to 20 mA, 4 to 20 mA, 0 to 10 VDC. Digitally scalable, offset. Accuracy: 0.17 % of range at 18 °C to 28 °C operating temperature; 0.4 % of range at 0 °C to 50 °C operating temperature. Resolution: 1/3,500 Load: 0 VDC to 10 VDC at min. 10 kOhm; 0/4 to 20 mA at max. 500 Ohm. Galvanically isolated from the signal input up to 500 V for 1 minute.
Power supply:	optionally 85 to 250 VAC 50/60 Hz, 18 VA or 11 to 36 VDC, 14 W or 24 VAC +/-10 %, 15 VA.		
Sensor supply:	12 VDC, +/-10%, max. 100 mA, short-circuit proof.		
Protection class:	Jet-proof and dust-tight to IP 65 from the front.		
Housing:	Dark red, impact-resistant plastic housing. The electronic slot can be pulled out to the rear. The plug-in cards can be installed very easily.		
Dimensions:	W 97 mm x H 50 mm x D 104 mm. Panel cut-out according to DIN: 92 mm x 45 mm.		
Fastening:	Via mounting frame with clamping screws.		
Connection:	fixed terminal strips.		
Relative humidity:	max. 85 %. rH, non-condensing.		
Ambient temperature:	Operation: 0 °C to +50 °C. With all 3 cards fitted: 0 °C to 45 °C. Storage: -40 °C to +60 °C.		
Weight:	approx. 300 g (without plug-in options).		
Scope of delivery:	Device, fixing material, seal, operating instructions.		
Customs tariff number:	9029 20 38		
Manufacturer:	Red Lion Controls, USA.		
Output cards:	The device can be very easily upgraded with different output cards. Each device can be equipped with a maximum of one interface card, one relay or transistor output card and one analog output card. You can easily install the cards yourself.		
Pluggable interface card:	1. half-duplex RS232, programmable 2. multipoint RS485, programmable 3. DeviceNet, programmable 4. PROFIBUS-DP, programmable 5. ModBus, programmable (via RS485 or RS232 interface)		

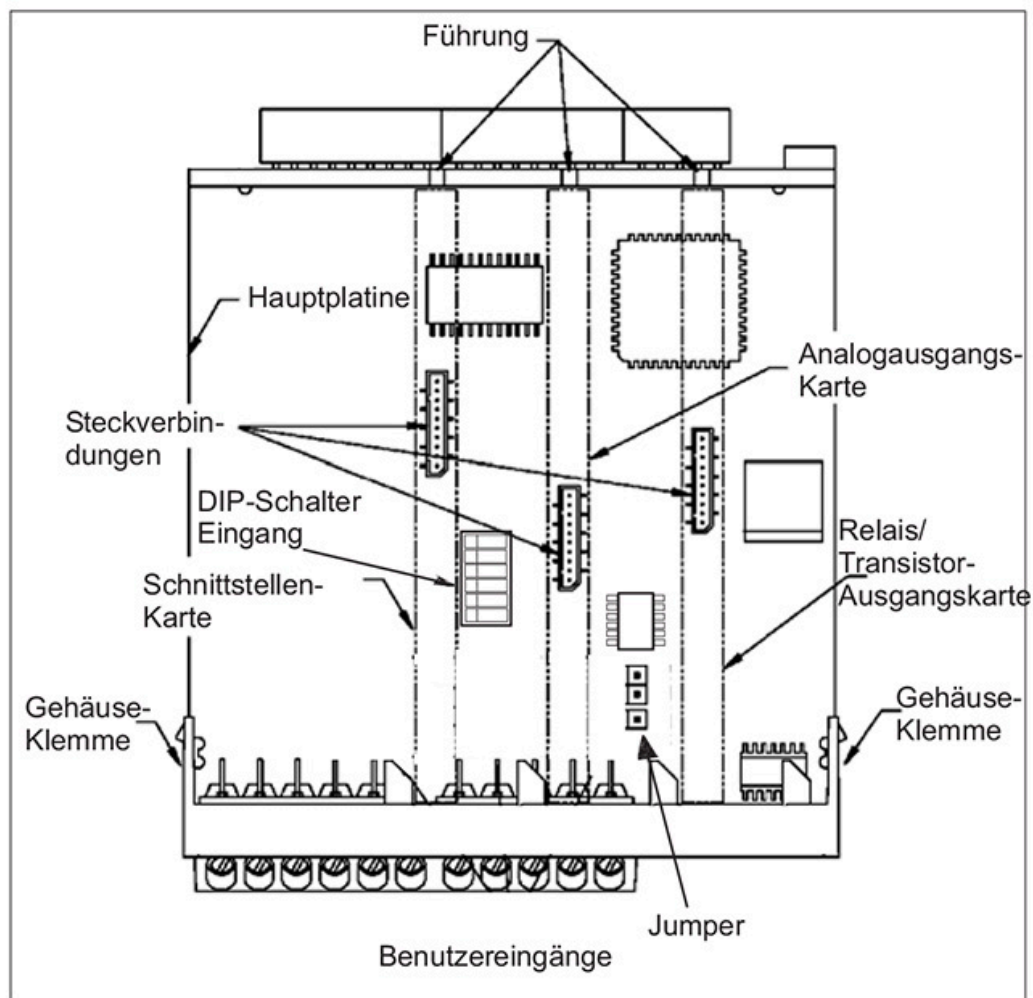| Products Order no.	
PAXI0020	Industrial counter/tachometer/slave display PAX I - 85 to 250 VAC supply
PAXI0030	Industrial counter/tachometer/slave display PAX I - 11 to 36 VDC/24 VAC supply

Accessories Order no.	
GEH0IP65	All-round IP65 aluminum housing for one device, finished with black powder coating, (WxHxD) 168 mm x 83 mm x 220 mm
PAXCDS40	Pluggable transistor output card 4 x PNP
PAXCDS30	Pluggable transistor output card 4 x NPN
PAXCDS20	Pluggable relay output card 4 x NO contact
PAXCDS10	Pluggable relay output card 2 x changeover contact
PAXCDL10	Pluggable analog output card
PAXCDC20	Plug-in interface card RS232

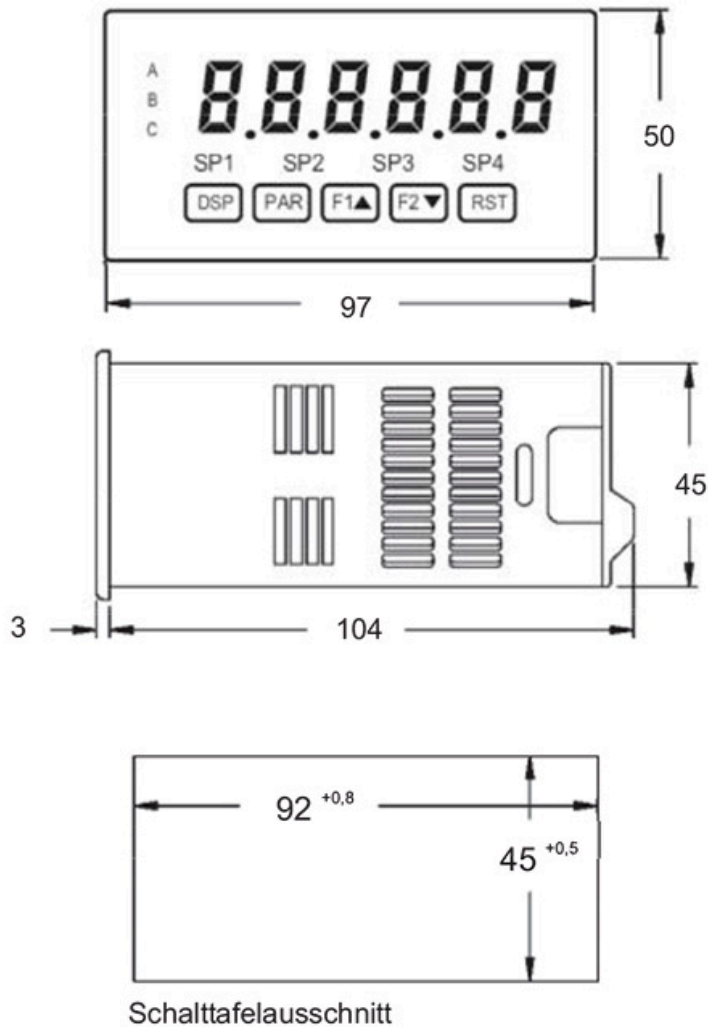|	
PAXCDC10	Plug-in RS485 interface card (terminal strip)
ENC5C000	All-round IP65 plastic housing for two devices (WxHxD) 188 mm x 188 mm x 130 mm
ENC5B000	All-round IP65 plastic housing for one device (WxHxD) 188 mm x 188 mm x 130 mm
PAXCDC50	Profibus DP plug-in interface card with 9-pin SUBD connector
BMK90000	Top-hat rail adapter for mounting the PAX series on a top-hat rail (WxHxD) 114 mm x 63.5 mm 133 mm
PAXCDC1C	Plug-in RS 485 interface card with 2 x RJ11 plugs
PAXCDC2C	Plug-in RS 232 interface card with 9-pin SUB-D connector
PAXCDC30	Plug-in DeviceNet interface card with terminal strip
ENC5A000	All-round IP65 steel housing for one device (WxHxD) 140 mm x 83 mm x 120 mm
PAXUSB00	Pluggable interface card USB
KABUSB11	USB programming cable, 1.5 m

Mechanischer Aufbau

Drawings

Dimensions (mm)

Schalttafelausschnitt

Abmessungen (in mm)