Industry - Counter PAXC

- 6-digit, 2 independent counters, 1 display for sum, difference
- max. 34 kHz, adaptable to all commercially available sensors
- Plug-in options: 2 or 4 freely programmable switching outputs
- Easy programming on the device via the front buttons
- high degree of protection IP 65, dimensions: 48 x 96 x 104 mm

https://www.wachendorff-prozesstechnik.de/PAXC

Description

The PAX C industrial counter can of course also be used as a very flexible and accurate laboratory device. However, with its robust plastic housing and high IP65 protection rating, it has been designed for harsh industrial use. The device is configured quickly and safely via 5 buttons. The operator is pleased with the clear user interface, with which he can easily record and change all parameters at a glance. It can also be retrofitted with the plug-in limit value card.

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.
Operating modes	Addition or subtraction with direction detection, difference, sum, phase discriminator x1, x2, x4 can be set.
Cut-off frequency	maximum 34 kHz
Housing	Dark red, impact-resistant plastic housing. The electronic slot can be pulled out to the rear. The plug-in card is very easy to install.
Display	6-digit, 14 mm high red LED. max. + 999.999 or -99.999 in static display, max. +/-99,999,999 in 2 alternating displays (OF 99) (999999)/(OF -99) (999999).
Scaling	All 3 counters can be scaled independently of each other
Indicators	A, B, C Counter A, B, C Sp1 - 4 Output 1 - 4 is active
Operating modes of the 3rd counter C	Counter: Counter A Total: Counter A + Counter B Difference: Counter A - Counter B *(Independent scaling independent of counters A and B.)*
Keys	The device is programmed and operated using the 5 push buttons on the front.
User inputs	3 programmable inputs are available. They can be set to PNP or NPN switching via jumpers. Maximum input 30 VDC. **NPN:** $Active_{Vin <}$ 0.9 VDC, $Inactive_{Vin}$ > 2.4VDC **PNP:** $Active_{Vin}$ > 2.4 VDC, $Inactive_{Vin}$ < 0.9 VDC Response times: max. 6 ms, with reset, gate and buffer memory, the device responds 25 µs after the next active edge of the assigned counter. A new edge is detected on the BE after max. 100 ms.
Power supply	**PAXC0020/PAXC002B:** 85 VAC to 250 VAC, 50/60 Hz, 18 VA **PAXC0030/PAXC003B:** 11 VAC to 36 VDC, 14 W or 24 VAC ±10 %, 15 VA
Sensor supply	12 VDC, +/-10%, max. 100 mA, short-circuit proof
Protection class	Water jet-proof and dust-tight from the front in accordance with IP 65
Housing:	Dark red, impact-resistant plastic housing. The electronic slot can be pulled out to the rear. The plug-in card is very easy to install.
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. Equipped with the limit value card: 0 °C to 45 °C. Storage: -40 °C to +60 °C.
Weight:	approx. 300 g (without plug-in option).
Scope of delivery:	Device, fixing material, seal, operating instructions.
Customs tariff number:	9029 10 00
Manufacturer:	Red Lion, USA.
Output cards:	The device can easily be upgraded with a limit value card.

Pluggable relay output cards:	• 2 x relay changeover contact 5 A at 120/230 VAC or 28 VDC (ohmic load), 90 VA inductive load at 120 VAC. Service life of the relays is 100,000 cycles at max. load. The service life increases with lower loads. • 4 x NO relay 3 A at 250 VAC or 30 VDC (resistive load), 70 VA inductive load at 120 VAC. Service life of the relays is 100,000 cycles at max. load. The service life increases with lower loads.
Pluggable transistor output cards:	• 4 x NPN-OC transistors: max. 100mA at $_{Vsat}$ = 0.7 V, $_{Vmax}$ 30 V, galvanic isolation of 500 V against the signal input. • 4 x 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.
Programming on the device:	Programming is possible if the programming lock input is not activated. All the necessary parameters can then be set using the 5 front buttons.

Products Order no.	
PAXC0020	PAX C meter with 85 to 250 VAC supply
PAXC0030	PAX C counter with 11 to 36 VDC/24 supply

Accessories Order no.	
BMK90000	Top-hat rail adapter for mounting the PAX series on a top-hat rail (WxHxD) 114 mm x 63.5 mm 133 mm
ENC5A000	All-round IP65 steel housing for one device (WxHxD) 140 mm x 83 mm x 120 mm
ENC5B000	All-round IP65 plastic housing for one device (WxHxD) 188 mm x 188 mm x 130 mm
ENC5C000	All-round IP65 plastic housing for two devices (WxHxD) 188 mm x 188 mm x 130 mm
PAXCDS10	Pluggable relay output card 2 x changeover contact
PAXCDS20	Pluggable relay output card 4 x NO contact
PAXCDS30	Pluggable transistor output card 4 x NPN
PAXCDS40	Pluggable transistor output card 4 x PNP

Drawings

Cut-off frequencies

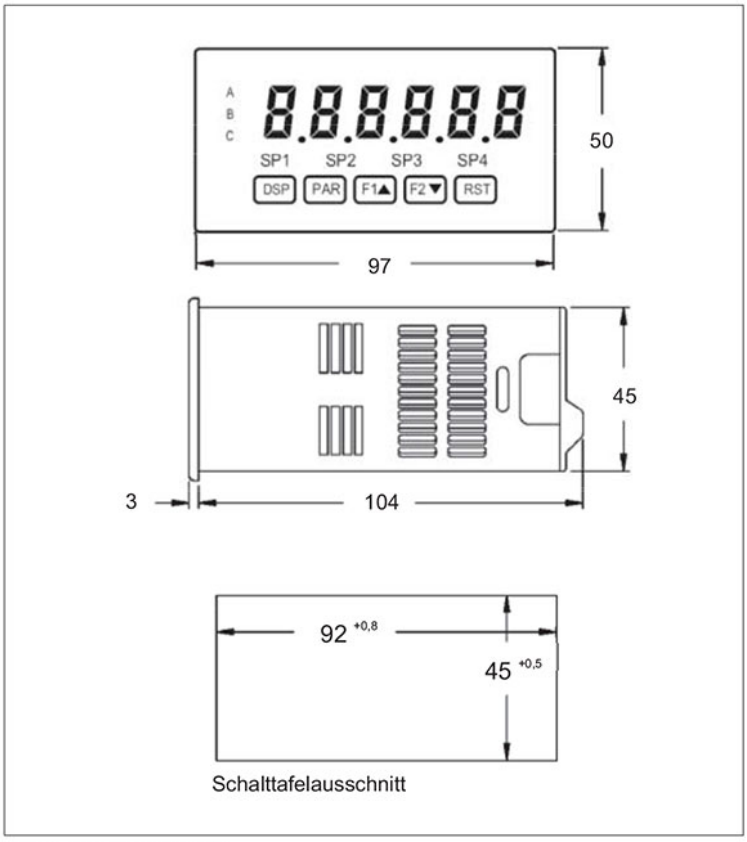
Grenzfrequenzen in kHz:

	1 Zähler, A oder B				Zähler A und B			
Grenzwerte	N	N	J	J	N	N	J	J
3. Zähler	N	J	N	J	N	J	N	J
Betriebsart								
Zähler	34	25	18	15	13	12	9	7,5
Zähler x2	17	13	9	7	9	7	5	4
Phasendiskr. x 1	22	19	12	10	7	6	4	3,5
Phasendiskr. x 2	17	13	9	7	7	6	4	3,5
Phasendiskr. X 4	8	6	4	3				

Die angegebenen Grenzfrequenzen gelten nur, wenn die DIP-Schalter auf Hi- Frequenz eingestellt sind.

Drawings

Dimensions (mm)



Abmessungen (in mm)

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