

## Timer PAXTM



- 6-digit, 14 mm high LED, sunlight readable and dimmable, indicators
- Timer, time relay and stopwatch function
- Plug-in options: 4 or 2 limit values
- Easy programming on the device or via PC
- High protection class IP65 on the front
- Robust plastic housing made from one piece

<https://www.wachendorff-prozesstechnik.de/en/PAXTM>

### Description

The PAX TM industrial timer with its robust plastic housing and high IP 65 protection rating has been designed for use in harsh industrial environments. It can of course also be used as a very flexible and accurate laboratory device. 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 all parameters at a glance and easily change values. Devices can also be retrofitted using the plug-in options.

### Product details

Entrance	2 inputs optionally adjustable: PNP or NPN
Resolution	Timer display: 0.001 s
Accuracy	Timer: $\pm 0.01$ % of the display.
Display area	Timer display: 999999, 23 adjustable time ranges Cycle counter display: 0 to 999999
Indicators	Timer display, counter display TMR = Timer function CNT = Display for switching cycles SP1 = Output 1 is active SP2 = Output 2 is active SP3 = Output 3 is active SP4 = Output 4 is active
Keys	The device is programmed and operated using the 5 push buttons on the front.
Function inputs	3 programmable inputs for different functions. PNP- or NPN-switching via jumper adjustable via jumper.
Operating modes	Various selectable e.g.: Start/stop with one or two sensors, automatic reset at start, etc.
Outputs	Equipped with an interface card, a relay or transistor transistor output card or real-time clock card.
Setting	The device is set via 5 front buttons or software.
Insulation	PAXTM000: 2300 Vrms for 1 minute to all inputs and outputs. PAXTM010: 500 Vrms for 1 minute to all inputs and outputs.

Sensor supply	12 VDC, $\pm 10$ %, max. 100 mA, short-circuit proof
Supply	PAXTM00 0/B: 85 VAC to 250 VAC 50/60 Hz, 18 VA PAXTM01 0/B: 11 VDC to 36 VDC, 14 W or 24 VAC $\pm 10$ %, 50/60 Hz, 15 VA
Ambient conditions	Operating temperature: 0 °C to +50 °C. 0 °C to +45 °C when equipped with 3 expansion cards. Storage temperature: -40 °C to +60 °C
Dimensions	(W x H x D) 97 mm x 50 mm x 104 mm, Panel cut-out according to DIN 92 mm x 45 mm.
Assembly	Mounting frame with clamping screws, connection via terminal strip.
Approvals:	UL approval (Underwriters Laboratories) for the USA and Canada
Weight:	approx. 300 g (without plug-in options).
Scope of delivery:	Device, fixing material, seal, operating instructions.
Customs tariff number:	9032 89 00
Manufacturer:	Red Lion, USA.
Output cards:	The device can be very easily upgraded with various 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)

Pluggable relay output cards:	<ul style="list-style-type: none"> <li>• 2 x relay changeover contact 5 A at 120/240 VAC or 28 VDC (resistive 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.</li> <li>• 4 x NO relay 3 A at 240 VAC or 30 VDC (resistive load), at 120 VAC (70 VA inductive load). Service life of the relays is 100,000 cycles at max. load. The service life increases with lower loads.</li> </ul>	ENC5C000	All-round IP65 plastic housing for two devices (WxHxD) 188 mm x 188 mm x 130 mm
Pluggable transistor output cards:	<ul style="list-style-type: none"> <li>• 4 x NPN-OC transistors: max. 100 mA at <math>V_{sat} = 0.7 V</math>, <math>V_{max} = 30 V</math>, galvanic isolation of 500 V against the signal input.</li> <li>• 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.</li> </ul>	GEH0IP65	All-round IP65 aluminum housing for one device, finished with black powder coating, (WxHxD) 168 mm x 83 mm x 220 mm
Plug-in real-time clock card:	Time accuracy +/- 5 sec/month after setting by the user. Internal lithium button cell battery with a service life of approx. 10 years. Synchronization via RS482 interface with up to 32 devices possible. 500 Vrms insulation for 1 minute to ground of the timer and user inputs.	PAXCDC1C	Plug-in RS 485 interface card with 2 x RJ11 plugs
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.	PAXCDC2C	Plug-in RS 232 interface card with 9-pin SUB-D connector
Programming with PC software	With the Crimson 2 Windows software, all project data can be easily created, managed, copied, registered and transferred to the PAX device on the PC. A starter package consisting of software, RS 232 interface card and PC/PAX connection cable makes it easier to decide in favor of this programming.	PAXCDC10	Plug-in RS485 interface card (terminal strip)
		PAXCDC20	Plug-in interface card RS232
		PAXCDC30	Plug-in DeviceNet interface card with terminal strip
		PAXCDC40	Programmable plug-in Modbus interface card
		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
		PAXRTC00	Plug-in real-time clock card (only for PAXCK*, PAXTM, EPAXCK*, LPAXCK*) *Included with PAXCK.

#### Products Order no.

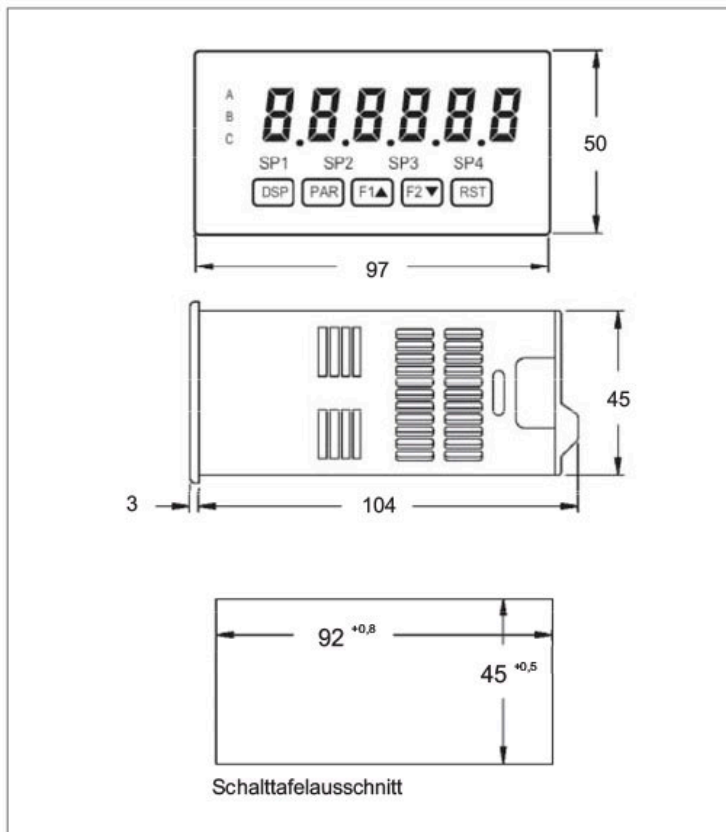
PAXTM000	Industrial timer PAXTM, 85 to 250 VAC
PAXTM010	Industrial timer PAXTM, 11 to 36 VDC / 24 VAC

#### 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 x 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

## Drawings

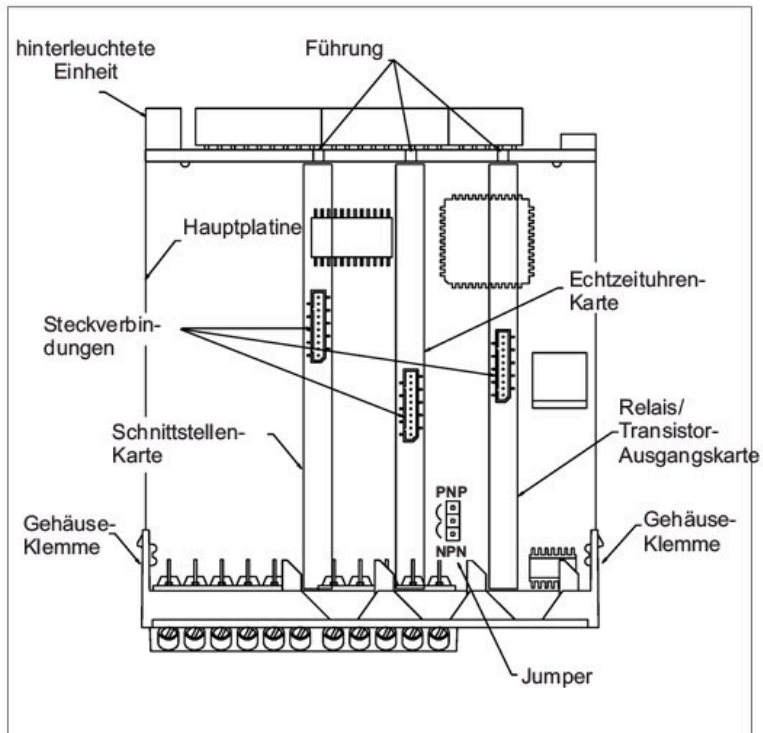
### Dimensions (mm)



Abmessungen (in mm)

**Drawings**

**Mechanical structure**



Mechanischer Aufbau



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