Industrial timer / real-time clock PAX CK

- 6-digit, 14 mm high LED, indicators
- Timer, time relay and stopwatch function
- Real-time clock display with date (PAXCK)
- Plug-in options: 4 or 2 limit values
- Easy programming on the device or via PC
- high protection class IP 65, 48 x 96 x 104 mm

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

Description

The PAX CK/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 precise 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

Display	6-digit, 14 mm high red LED, readable in sunlight, dimmable via keypad or user inputs.
Timer display	Time range: 23 adjustable time ranges, minimum resolution 0.001 sec, maximum resolution 1 hr, maximum display: 999999 Accuracy: ±0.01 %
Real-time/date display	**Real-time display in 5 different formats:** hr/min/sec (12 or 24 hr format);hr/min (12 or 24 hr format), (with or without am/pm display). **Date display in 7 different formats:** Month/Day or Day/Month (numeric or 3-digit format); Month/day/year or day/month/year (numeric); Weekday/day (3-digit format for weekday). This card is already pre-installed on the PAXCK.
Control inputs A and B for timer	2 programmable inputs are available. They can be set to PNP or NPN switching via jumpers. Protection: max. 30 volts. NPN: Active$_{Vin}$ < 0.9 VDC, Inactive$_{Vin}$ > 3.6 VDC PNP: Active$_{Vin}$ > 3.6 VDC, Inactive$_{Vin}$ < 0.9 VDC Pulse width for timer input: 1 msec. max. Response time for start/stop of the timer: 1 msec. max. Programmable filter for damping contact bounce.
User inputs	3 programmable inputs are available. They can be set to PNP or NPN switching via jumpers. Protection: max. 30 volts.
Indicators:	TMR = Timer function CNT = Display for switching cycles DAT = Display date - real time clock, display time - real time clock 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.
Operation	The clear user interface with the display of all relevant values and indicators enables quick operation. The device is operated via 5 front buttons
Power supply	PAXCK/TM00 0/B: 85 to 250 VAC 50/60 Hz, 15 VA. PAXCK/TM01 0/B: 11 to 36 VDC, 11 W or 24 VAC +/-10 %, 15 VA.
Sensor supply	12 VDC, +/-10 %, 100 mA max., short-circuit proof.
Protection class	Jet-proof and dust-tight to IP65 from the front
Housing	Dark red, impact-resistant plastic housing. The electronic insert can be pulled out to the rear. One unit can be inserted. The plug-in cards can be installed very easily.
Dimensions:	W 96 mm x H 48 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
Ambient temperature:	Operation: 0 °C to +50 °C Equipped with all 3 cards: 0 °C to 45 °C Storage: -40 °C to +60 °C
Relative humidity:	max. 85 % rH, non-condensing.
Approvals:	UL approval (Underwriters Laboratories) for the USA and Canada
Weight:	approx. 300 g (without plug-in options).

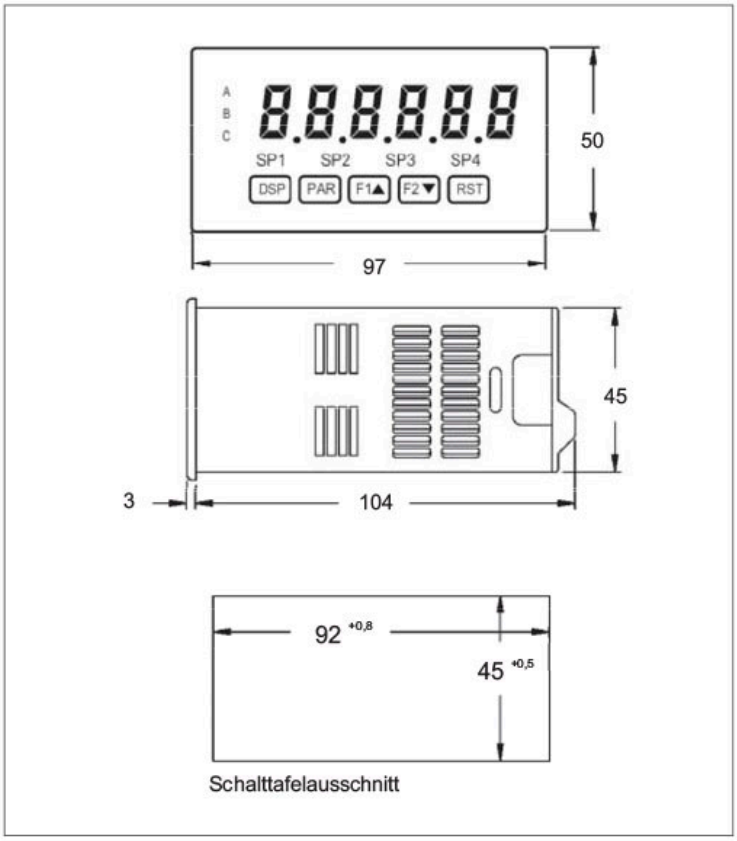
Scope of delivery:	Device, fixing material, seal, operating instructions.
Customs tariff number:	9032 89 00
Manufacturer:	Red Lion, USA.
Output cards:	The device can be very easily upgraded with various output cards. Each device can be equipped with a maximum of one interface card, one relay or transistor 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:	• 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. • 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.
Pluggable transistor output cards:	• 4 x NPN-OC transistors: max. 100 mA at $_{Vsat}$ = 0.7 V, $_{Vmax}$ 30 V, galvanic isolation of 500 V from 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.
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.
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.
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.

Products Order no.	
PAXCK000	Real-time clock/timer, 85 to 250 VAC

Accessories Order no.	
BMK90000	DIN rail adapter for mounting the PAX series on a DIN 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
GEH0IP65	All-round IP65 aluminum housing for one device, finished with black powder coating, (WxHxD) 168 mm x 83 mm x 220 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
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.
PAXUSB00	Pluggable interface card USB
KABUSB11	USB programming cable, 1.5 m

Drawings

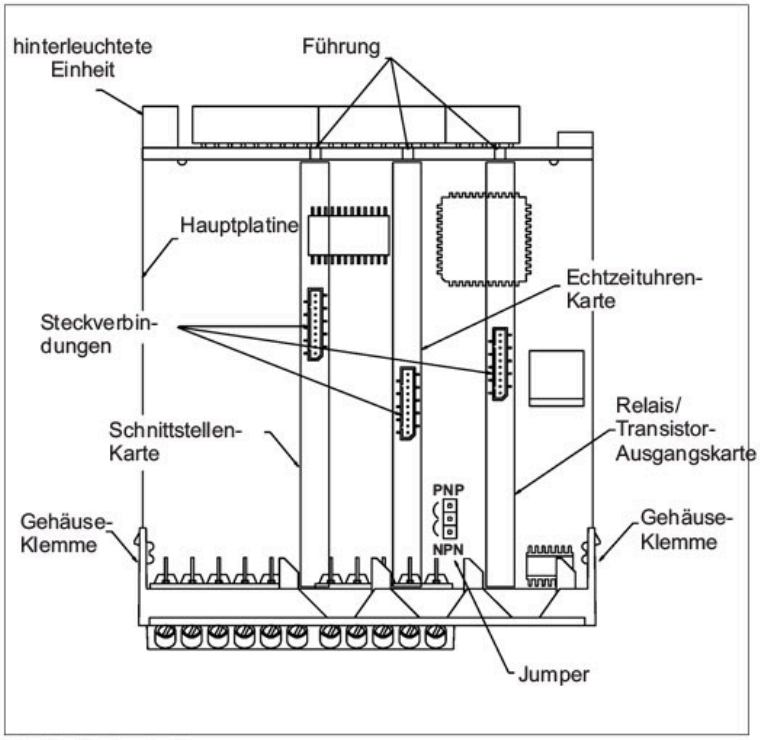
Dimensions (mm)



Abmessungen (in mm)

Drawings

Mechanical structure



Mechanischer Aufbau

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