

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

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| 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. |

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| 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). |

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| Scope of delivery: | Device, fixing material, seal, operating instructions. | BMK90000 | Top-hat rail adapter for mounting the PAX series on a top-hat rail (WxHxD) 114 mm x 63.5 mm 133 mm |
| Customs tariff number: | 9032 89 00 | ENC5A000 | All-round IP65 steel housing for one device (WxHxD) 140 mm x 83 mm x 120 mm |
| Manufacturer: | Red Lion, USA. | ENC5B000 | All-round IP65 plastic housing for one device (WxHxD) 188 mm x 188 mm x 130 mm |
| 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. | ENC5C000 | All-round IP65 plastic housing for two devices (WxHxD) 188 mm x 188 mm x 130 mm |
| 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) | GEH0IP65 | All-round IP65 aluminum housing for one device, finished with black powder coating, (WxHxD) 168 mm x 83 mm x 220 mm |
| Pluggable relay output cards: | <ul style="list-style-type: none"> • 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. | PAXCDC1C | Plug-in RS 485 interface card with 2 x RJ11 plugs |
| Pluggable transistor output cards: | <ul style="list-style-type: none"> • 4 x NPN-OC transistors: max. 100 mA at $v_{sat} = 0.7 V$, $v_{max} 30 V$, 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. | PAXCDC2C | Plug-in RS 232 interface card with 9-pin SUB-D connector |
| 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. | PAXCDC10 | Plug-in RS485 interface card (terminal strip) |
| 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. | PAXCDC20 | Plug-in interface card RS232 |
| 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. | 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 |

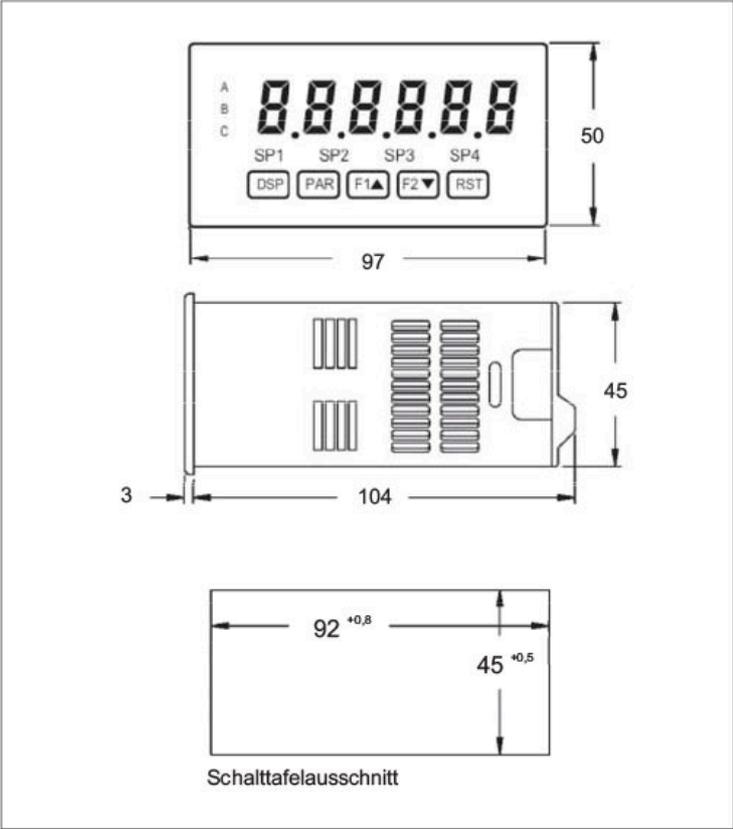
Products Order no.

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| PAXCK000 | Real-time clock/timer, 85 to 250 VAC |
| PAXCK010 | Real-time clock/timer, incl. real-time clock card, 11 to 36 VDC / 24 VAC |

Accessories Order no.

Drawings

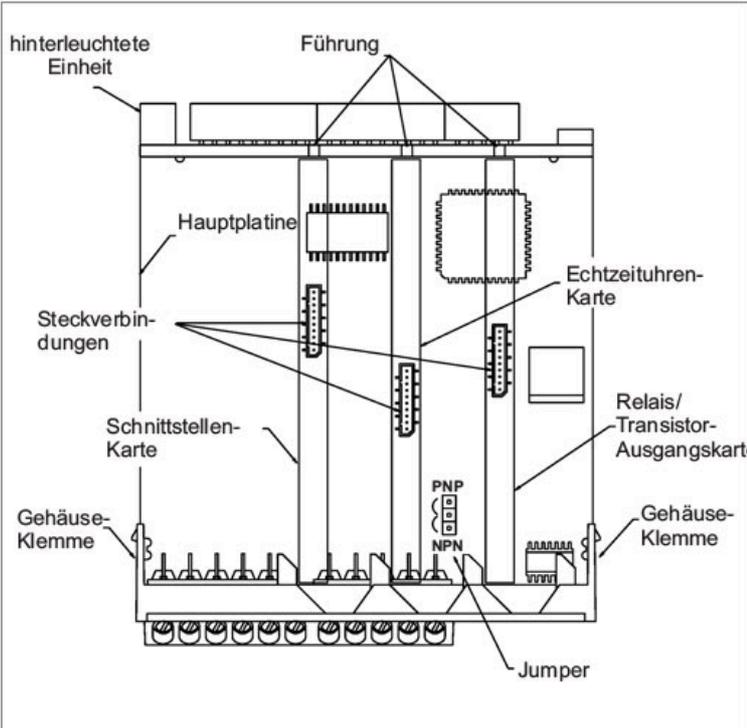
Dimensions (mm)



Abmessungen (in mm)

Drawings

Mechanical structure



Mechanischer Aufbau



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