WACHENDORFF
Prozesstechnik GmbH & Co. KG

Electronic time relay C48 T

- 2 transistor and relay outputs
- 12 time ranges
- Easily programmable
- Up to 42 different operating modes
- Easy operation via 4 buttons
- DIN cut-out 45 mm x 45 mm
- protection class IP65

https://www.wachendorff-prozesstechnik.de/en/c48t

Description

The C48 T is available with one or two presets. For example, the current time value and the preset value can be shown simultaneously on the 2-color display. The C48 T offers 12 different time ranges from 1/1000 seconds to hours and minutes. With up to 42 different operating modes and three programmable user inputs, as well as a programmable front button, the C48 T can be used universally. Its high IP65 protection rating allows it to be used in almost all branches of industry, such as electroplating, cleaning systems or test field equipment.

Product details

Display	2 x 6-digit standard or backlit brilliant LCD. Upper display red 7.5 mm high and lower display green 5 mm high. Indicators: PRS, 1, 2, O1, O2 for the switching status of the outputs and the identification of the preselections
Keys	The device is programmed and operated using 4 buttons. All buttons can be selectively locked.
Entrance	Run/Stop, can be set as high or low active via jumper. Low active: $_{VILmax}$ = 1.5 VDC, 22 kOhm pull-up resistor to 5 VDC. High active: $_{VIHmin}$ = 3.5 VDC, $_{VIN}$ = max. 30 VDC, 22 kOhm pull-down resistor. Maximum run/stop delay time: 250 µs.
Accuracy	±0,01 %
User inputs 1, 2 and 3	The 3 user inputs can be activated via push-buttons, switches, relays or NPN switching transistors to ground. Maximum delay time: 5 ms.
Outputs	Transistor: PNP-OC_{ISRC} = 100 mA, $_{VOH}$ = 12 VDC ±15 % (with power supply via C48 T); $_{VOH}$ = 13 VDC to 30 VDC (with external power supply). Relay: NO contact, 250 VAC/30 VDC/5 A, min. 100,000 switching cycles. Wipe signal time: 0.01 s Resolution: 0.01 to 99.99 s, ±0.01% + 10 ms. 0.1 s Resolution: 0.1 to 999.9 s ±0.01 % + 100 ms.
Programming	Programming and operation is menu-guided via the front buttons
RS485(option)	32 devices can be networked, baud rate: 1200 to 9600, Addresses: 0 to 99, format: 10 bits, 1 start bit, 7 or 8 data bits, 1 or no parity bit and stop bit. Parity: Odd, even or none.
Data backup	EEPROM stores all program parameters and timer values.
Power supply	C48TXX0X: 85 to 250 VAC, max. 9 VA/11 to 14 VDC (VDC supply not for devices with PNP output) C48TXX1X: 18 to 36 VDC, 5.5 W/24 VAC (10%).
Sensor supply	12 VDC (±15 %)/100 mA.
Protection class	Jet-proof and dust-tight to IP 65 from the front
Housing	Flame- and scratch-resistant black plastic. Housing is mounted on the control panel. Front panel can be pulled out. Devices can be mounted directly next to each other.
Dimensions	W 50 mm x H 50 mm x D 106 mm. Panel cut-out DIN W 45 x H 45 mm.
Connection	via 14 screw terminals.
Ambient temperature	Operation: 0 °C to +50 °C, storage: -40 °C to +70 °C.
Electromagnetic compatibility CE-compliant	Interference emission: EN 50 081-2 Interference immunity: EN 50 082-2
Approvals	UL approval (Underwriters Laboratories) for the USA and Canada.
Weight	approx. 170 g.
Scope of delivery	Device, mounting material, seal, operating instructions.
Customs tariff number:	9032 89 00
Manufacturer:	Red Lion

Products Order no.

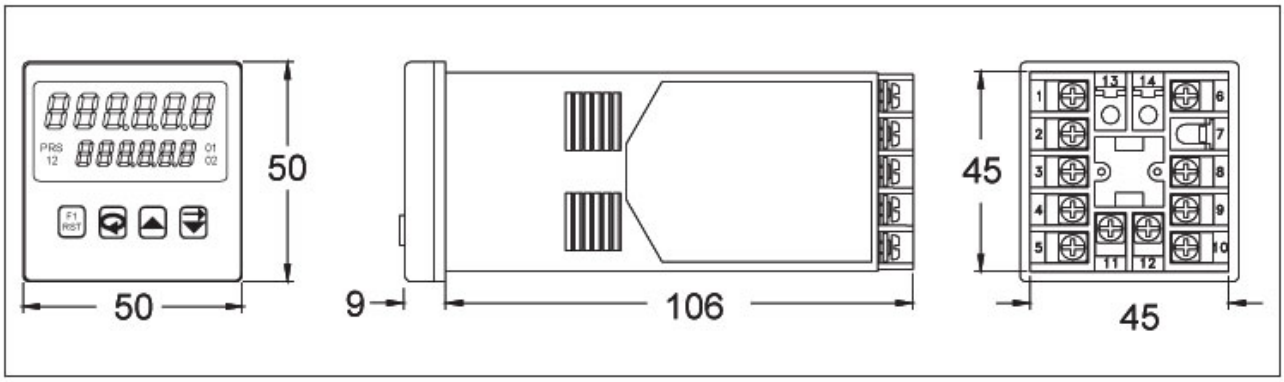
C48TD011	C48T, standard, 2 preselections, PNP output, 18-36 VDC/24 VAC supply
C48TD012	C48T, standard, 2 presets, relay output, 18-36 VDC/24 VAC supply
C48TD101	C48T, backlit LCD, 2 preselections, PNP output, 11-14 VDC/85-250 VAC supply
C48TD102	C48T, backlit LCD, 2 presets, relay output, 11-14 VDC/85-250 VAC supply
C48TD106	C48T, backlit LCD, 2 preselections, PNP output, RS485, 11-14 VDC/85-250 VAC supply

C48TD107	C48T, backlit LCD, 2 presets, relay output, RS485, 11-14 VDC/85-250 VAC supply
C48TD111	C48T, backlit LCD, 2 preselections, PNP output, 18-36 VDC/24 VAC supply
C48TD112	C48T, backlit LCD, 2 preselections, relay output, 18-36 VDC/24 VAC supply
C48TD116	C48T, backlit LCD, 2 preselections, PNP output, RS485, 18-36 VDC/24 VAC supply
C48TD117	C48T, backlit LCD, 2 presets, relay output, RS485, 18-36 VDC/24 VAC supply
C48TS004	C48T, standard, 1 preselection, PNP output, relay output, 85-250 VAC supply
C48TS014	C48T, standard, 1 preselection, PNP output, relay output, 18-36 VDC/24 VAC supply
C48TS104	C48T, backlit LCD, 1 preselection, PNP output, relay output, 85-250 VAC supply
C48TS114	C48T, backlit LCD, 1 preselection, PNP output, relay output, 18-36 VDC/24 VAC supply

Accessories Order no.	
URDR4848	DIN rail adapter for devices in the UR4848 series
URAD4848	Installation adapter 48 x 96 mm to 48 x 48 mm
URAD9648	Installation adapter 96 x 96 mm to 48 x 48 mm
URAD7248	Installation adapter 72 x 72 mm to 48 x 48 mm

Drawings

Dimensions:



Abmessungen (in mm)

Drawings

Key functions:

F1 RST — Programmierbare Funktionstaste/Reset.

Aktiviert Programmiermodus, Quittierungstaste für Werteingaben, "Scroll-Taste" für Eingaben.

Taste zum Durchlaufen der einzelnen Programmabschnitte im Programmiermodus. Dient im Betrieb zur Werteingabe und Anzeigenwechsel.

Aktiviert Eingabemöglichkeit für Zeiteinstellung, Vorwahlwerte, etc. und dient zur Werteingabe.

Bestellhinweise

Typ	Standard	hinterleuchtete LCD	Vorwahlen	PNP-Ausgang	Relais-Ausgang	RS485	Bestellnummer 18-36 VDC/24 VAC-Versorgung	Bestellnummer 11-14 VDC/85-250 VACVersorgung
C48T								
	x		1	x	x		C48TS014	C48TS004
		x	1	x	x		C48TS114	C48TS104
	x		2		x		C48TD012	C48TD002
	x		2		x	x	C48TD017	C48TD007
	x		2	x			C48TD011	C48TD001
		x	2		x		C48TD112	C48TD102
		x	2		x	x	C48TD117	C48TD107
		x	2	x			C48TD111	C48TD101
		x	2	x		x	C48TD116	C48TD106
Zubehör								
Ersatzplatine Relais für 1 Vorwahl							RBC48002	RBC48002
Ersatzplatine Relais für 2 Vorwahlen							RBC48003	RBC48003

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