

Take Timer

The timer 1180 is built in a standard 190 x 40 x 107 mm plug-in unit with LED numerical displays. It can be used both in Down-timer (count-down) and Up-timer (stop-watch) mode.



TECHNICAL SPECIFICATIONS

General

Weight: 700 g
 Dimensions: 190 x 40 x 107 mm
 Supply voltage: 12 V to 38 V DC / 10 V to 24 V AC
 Current drain: 12 V / 180 mA
 24 V to 38 V / 120 mA
 Connector: 64-pin. connector DIN 41612
 Fastening: M3 screws (see accessories)
 Display: 7 digits LED display,
 14.2 mm tall, colour green
 Digit 1/10 colour yellow
 Modes: Up-Timer
 Down-Timer

Up Timer

Range: 9 h 59 m 59 s
 Resolution: 1/10 s
 Memory: 5 time values

Down Timer

Range: 09 h 59 m 59 s
 Resolution: 1 s
 Presets: 5 time values

Interfaces

Remote display interface: Electrical: RS-422
 Signals: DCK (data clock)
 FCK (frame clock)
 DATA (8 bit Slot)
 Clock rates: DCK 10 kHz
 FCK 1.25 kHz
 Format: NRZ word length 8 bit
 Bit 0-3 segment addresses
 Bit 4 decimal point
 Bit 5-7 digit addresses
 Supply: +5 V (logic)
 +24 V (input voltage)
 GND (signal)
 0 V (input voltage)

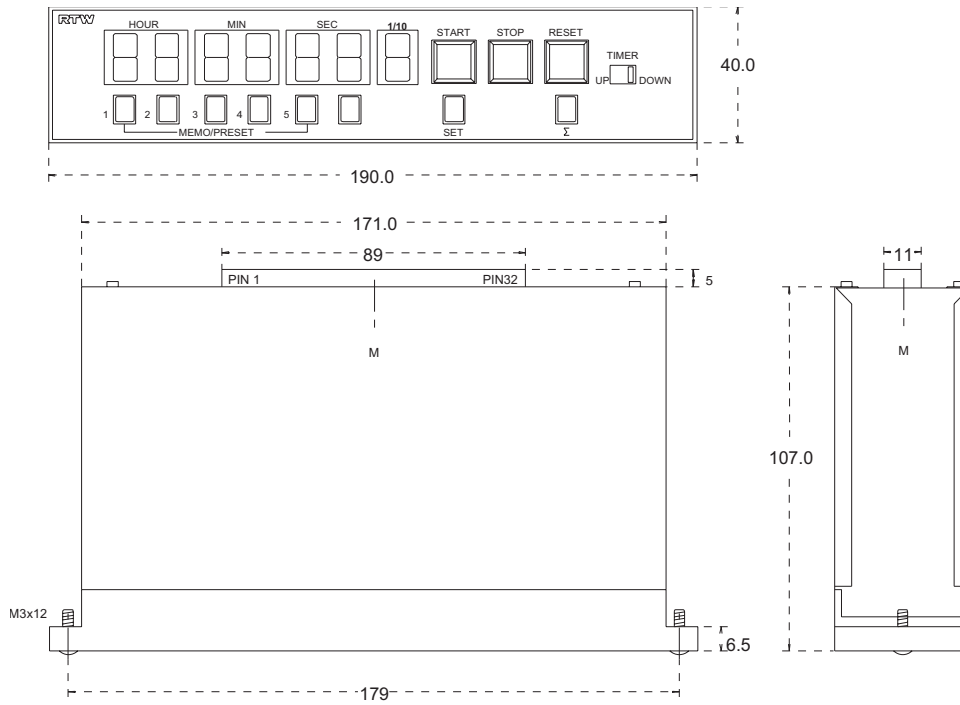
Remote control interface: serial transmission of all timer functions
 parallel transmission of: START, STOP, RESET (active low)
 Electrical: RS-422
 Signals: DCK (data clock)
 RFCK (rem. frame clock)
 RDATA (rem. data)
 START
 STOP
 Clock rate: DCK 10 kHz
 RFCK 1.25 kHz
 Format: NRZ word length 8 bit
 LSB first
 Supply: +5 V (logic)
 GND (signal)

Control output 1&2: opto couplers CNY74-2 (U_{CEmax} : 70 V)
 Control output 3: TTL-compatible 5 V via 470 Ω

Items delivered

Timer 1180: • mating connector
 • operating manual

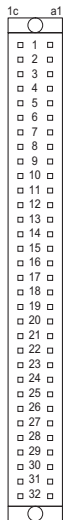
Order number: 1180



Abmessungen in Millimeter: Darstellung auf 45% reduziert. Dimensions in mm. Size reduced to approx. 45%.

CONNECTION

The timer is connected up using a 64-pin female connector (DIN 41612).
The connector is wired up as follows:



pin 14c :	+FCK	(6)		pin 13a:	DCK	(1)	
pin 15c:	+DAT	(7)	<i>Display</i>	pin 14a:	-FCK	(2)	
pin 16c:	+5 V	(8)		pin 15a:	-DAT	(3)	<i>Display</i>
pin 17c:	GND	(9)		pin 16a:	+VIN	(4)	
pin 18c:	OUT3	(1)		pin 17a:	0 V	(5)	
pin 19c:	+OUT1*	(2)	<i>Outputs</i>	pin 18a:	GND	(6)	
pin 20c:	+OUT2*	(3)		pin 19a:	-OUT1*	(7)	<i>Outputs</i>
pin 21c:	+5 V	(4)		pin 20a:	-OUT2*	(8)	
pin 22c:	0 V	(5)		pin 21a:	GND	(9)	
pin 23c:	STOP	(6)		pin 22a:	START	(1)	
pin 24c:	DCK	(7)		pin 23a:	RESET	(2)	
pin 25c:	RDATA	(8)	<i>Remote</i>	pin 24a:	RFCK	(3)	<i>Remote</i>
pin 26c:	GND	(9)		pin 25a:	+5 V	(4)	
pin 30c:	0 V DC			pin 26a:	0 V	(5)	
pin 31c:	Vin AC		<i>Supply</i>	pin 30a:	0 V DC		
pin 32c:	+Vin DC/Vin AC			pin 31a:	Vin AC		<i>Supply</i>
				pin 32a:	+Vin DC/Vin AC		

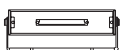
*+ = *Collector*
- = *Emitter*

COLOURS

RAL 1015 Light ivory
RAL 7011 Iron grey

ACCESSORIES

Subject to technical changes without prior notice 04/2004



Case without power supply
Order no. 1023E



Remote display
Order no. 1197A



Remote display
Order no. 1183



19"-1 unit height mounting panel
Order no. 12993



19"-1 unit height mounting panel
Order no. 12994



Bracket
Order no. 1127H



Clamping locks
Order no. 13973