



SC 95.4x pro

Master clock

- For approx. 200 slave clocks (24 VDC, 1.5 A, pole changing pulse)
- No extra power supply unit needed (24V DC slave clocks and GPS-time antenna included)
- Short-circuit proof
- Automatic adjustment of the slave clocks
- Automatic time correction of slave clock/s after supply voltage interruption
- 10 years battery-reserve for logic controller / up to 24 hour reserve for slave clocks
- Fully automatic summertime change (European standard) with 60 additional pulses or 1 h. pulse suppression of the slave-clock-line
- Monitoring of the slave-clock-line and malfunction indicator in display
- Security by PIN-Code
- Illuminated display
- Data-key function
- DCF / GPS function
- Frontswitch (potential-free) can be use to control an arbitrary application

Further information / Accessory

Accessory: Data-key DK pro and programming package PP 50 pro
(not included in delivery of the time switch)



Accessory: Radio Receiver DCF-Time FU 20.00 pro
(not included in delivery of the time switch)



Accessory: Radio Receiver GPS-Time FU 3x.00 pro
(not included in delivery of the time switch)



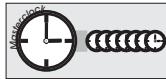
Highlights

- Yearly program with Easter function, Weekday function and Extra-switching-time-function
- 24V DC power supply integrated
- Text based menu and self-explanatory symbols
- Display with a large dot matrix area to provide two high resolution text lines
- Easy handling. Quick and intuitive programmable time switch
- Can be programmed with supply disconnected
- Unlimited program security by E2-PROM
- Programmable with PC (Accessory Data-key DK pro and Programming package PP 50 pro)

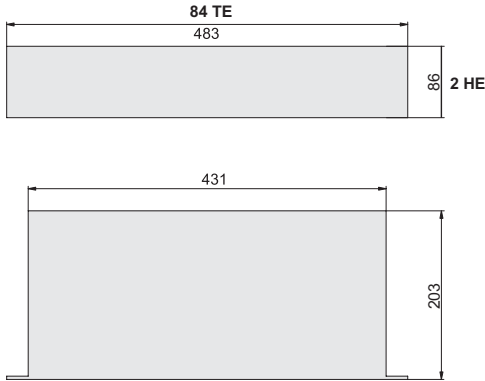
Overview time switch function (Functions similar to SC 93.40 pro)

pin	gps/dcf	astr	Internal system 300	year ^{prog}	week ^{prog}	24h ^{prog}	kanal 1-4 channel
timer	icd	☀️	300h	pulse	extern	cycle	data

- 4 channel (change-over)
- Daily, weekly and yearly program
- 300 memory locations
- Minimum interval 1 min.
- Permanent by date
- Manual override
- Elapsed time and pulse counter
- Pulse function
- Cycle function
- Timer function
- Channel button function
- DCF function
- Data-key function



Digital time switch as master clock SC 95.4x pro pluggable into 19"-housing (DIN EN 41494)



Technical data master clock unit

Output voltage	24V-pole changing pulse	
Output current	1,5 A	
Max. number slave clocks	approx. 200 slave clocks à 7 mA	
Output signal	Pole changing pulse	
Pulse sequence	Normal operation = 1/Min. During adjustment = 10/Min.	
Pulse length Pulse function	approx. 2 Sek. (adjustable)	
Power back-up for slaveclock-line (at 20°C)	SC 95.47 pro no power back-up for slaveclock-line	SC 95.48 pro up to 24 h (depending on the switching status of the relays and the pulse length of the slaveclock-signal)

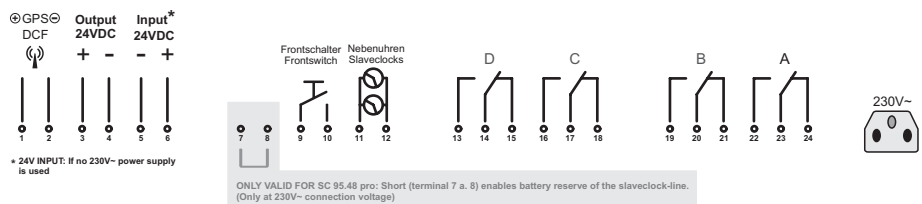
Technical data time switch unit

Supply voltage***	230 V, 50–60 Hz (IEC connector) or 24V DC mit max. 3 A (quick-connect terminal)
Power consumption (real power)	1,2–3,2 W (depending on the switching status)
Channels (potential-free)	Change-over, contact gap < 3 mm (μ)
Contact material	AgSnO ₂
Switching capacity per channel	5 A / 250 V bei cosφ=1 5 A with inductive load cosφ=0,6
Min. switching power	1000 mW (10 V / 10 mA)
Max. starting current	50 A
Switching functions	ON, OFF, pulse, cycle, yearly program
Pulse length Pulse function (switching time)	00:01 bis 59.59 mm:ss
Pulse length Timer (man. switching)	00:00:01 bis 9:59.59 h:mm:ss
Pulse/Pause length Cycle	00:00:01 bis 9:59.59 h:mm:ss
Memory locations	300
Minimum interval	1 min.
Time base	Quartz crystal or DCF / GPS
Power back-up (at 20°C)	approx. 10 years (depends on the Lithium-battery life)
Program security	unlimited by E2-PROM
Quartz crystal accuracy (at 20°C)	≤ ±0.5 sec./day (in normal use)
Display	high resolution LCD (visible area 12.8 cm ²)
Permitted ambient temperature	-10°...+50°C
Enclosure	self-extinguishing thermoplastic
Dimensions	483 x 86 x 203 mm, 2 HE & 84 TE
Mounting	pluggable into 19"-housing
Type of protection	IP 20 to DIN EN 60529
Class of protection	II when installed according to regulations
Frontswitch	potential-free frontswitch N/O contact, 5 A / 250 V at cosφ=1
Accessories (not included in delivery)	Data-key DK pro, Radio Receiver FU 20.00 pro, FU 3x.00 pro, programming package PP 50 pro

** If no 230V~ power supply is available you can use alternatively a 24V DC source (load 3 A).

Overview time switch functions

	Switching time	Channel-key
ON/OFF	✓	✓
Permanent	✓	✓
Pulse	✓	
Timer		✓
Cycle	✓	✓
Astro		
Permanent by date	✓	
Yearly program	✓	



* 24V INPUT: If no 230V~ power supply is used

ONLY VALID FOR SC 95.48 pro: Short (terminal 7 a. 8) enables battery reserve of the slaveclock-line. (Only at 230V~ connection voltage)

Order number	Number of slave-clock-lines	Channels	Power back-up for slaveclock-line
SC 95.47 pro	1	4	NO
SC 95.48 pro	1	4	YES

✓ Housing colour