



SC 93.47 pro

Master clock

- For approx. 200 slave clocks (24 V DC, 1.5 A, pole changing pulse)
- Power supply unit for slave clocks not included in delivery
- Short-circuit proof
- Automatic adjustment of the slave clocks
- Automatic time correction of slave clock/s after supply voltage interruption
- 10 years battery-reserve
- 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 function

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)

Accessory : Power supply unit NT 73 pro for slave clocks
(not included in delivery of the time switch)



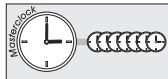
Highlights

- Yearly program with Easter function, Weekday function and Extra-switching-time function
- 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)

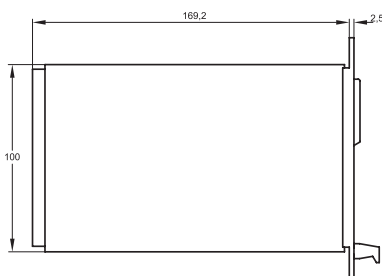
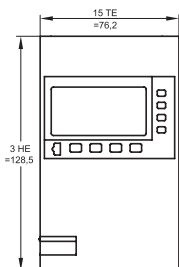
pin	gps/dcf	astr	internal mem 300	year ^{prog}	week ^{prog}	24h ^{prog}	kanal 1-4
timer	load	sun/moon	3h	pulse	extern	cycle	data

- 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 93.47 pro

pluggable into 19"-housing (DIN EN 41494)

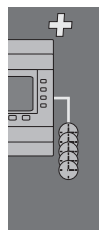


Technical data master clock unit

Output voltage	24 VDC (12 VDC / 48 VDC / 60 VDC) (adjustable with DIP switch on PCB)
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 (switching time)	1.5 sec.

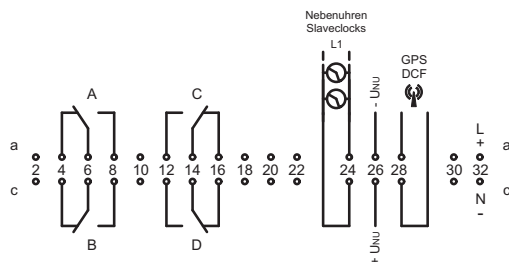
Technical data master clock unit

Supply voltage	230 V, 50–60 Hz
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~ at 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 up to 59:59 mm:ss
Pulse length Timer (man. switching)	0:00:01 up to 9:59:59 h:mm:ss
Pulse/Pause length Cycle	0:00:01 up to 9:59:59 h:mm:ss
Memory locations	300
Minimum interval	1 min.
Time base	Quartz crystal or DCF 77 (FU 20.00 pro)
Power back-up (at 20°C)	approx. 10 years (depends on the Lithium-battery life)
Program security	unlimited by E ² -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	128.5 x 76.2 mm
Mounting	pluggable into 19"-housing
Type of protection	IP 00 to DIN EN 60529
Class of protection	I when installed according to regulations
Accessories (not included in delivery)	Data-key DK pro, Radio Receiver FU 20.00 pro / FU 3x.00 pro, programming package PP 50 pro, Power supply unit NT 73 pro



Overview time switch functions

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



Order number	Number of slave-clock-lines	Channels	Time base
SC 93.47 pro	1	4	Quartz/DCF

✓ Housing colour