

MASTERCLOCKS

müller SC 93.47 pro



Accessories



DK pro



PP 50.00 pro



müller FU 20.00 pro



müller FU 30.00 pro



NT 73.24 pro



Software for PP50/
PP60

Overview

- 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
- Fully automatic summertime change (European standard) with 60 additional pulses or 1 hour 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

Overview time switch function

- 4 channels (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

Highlights

- Yearly program within Easter function, Weekday function and Extra-switching-time function
- Text based Menu
- Display with a large dot matrix area to provide two high resolution text lines
- Easy handling
- Quick and intuitive programmable
- 10 years battery-reserve
- Data security through non-volatile memory

Intended use

- The device fits for the particular use of the following tasks: Regulation of slave clocks in schools, sports halls, hospitals, factories and companies or huge buildings as well as for church clocks.
- Operate the device in a dry room only!
- The installation must be in accordance with the instruction manual.

Order numbers

■ müller

SC 93.47 pro

1 Slaveclock-line
4 channels

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müller SC 93.47 pro

Order information

	Voltage	EAN	Art. No.
SC 93.47 pro	230 V 50-60 Hz	4022709216229	21622

Technical data master clock unit

Output voltage	24 V DC (12 V DC / 48 V DC / 60 V DC) (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	approx. 2 sec. (adjustable)

Technical data

Supply voltage	230 V, 50-60 Hz
Power consumption (real power)	1,2 -2,3 W (depending on the switching status)
Contact material	AgSnO ₂
Switching capacity per channel	
resistive load:	5 A / 250 V~ at cosφ=1
inductive load:	5 A at cosφ=0,6
Min. switching power	1.000 mW (10 V / 10 mA)
Max. starting current	50 A
Filament Lamp, Halogen Lamp	1250 W
LED (230 V~) / CFL	200 W
Switching functions:	ON OFF pulse cycle yearly program
Pulse length	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 DCF (FU 20.00 pro) GPS (FU 3x.00 pro)
Quartz accuracy (at 20°C)	≤±0,5 Sec./day (Quartz accuracy optimized for typical ambient conditions)
Power back-up (at 20°C)	approx. 10 years (depends on the Lithium-battery life)
Display	high resolution LCD (visible area 12,8 cm ²)
Permitted ambient temperature	-30°...+50°C
Housing	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
Mode of operation (DIN EN 60730-1) (DIN EN 60730-2-7)	1 BSTU
Degree of contamination (DIN EN 60730-1)	2
Rated surge voltage (DIN EN 60730-1)	4 kV
Accessories (not included in delivery)	Data-key DK pro Programming package PP 50 pro Programming package PP 60 pro Radio receiver FU 20.00 pro Radio receiver FU 3x.00 pro Netzteil NT 73 pro 32 pole (multipoint) socket connector

