

# MASTERCLOCKS

müller SC 98.47 pro



## Accessories



DK pro



PP 50.00 pro



müller FU 20.00 pro



müller FU 30.00 pro



Software for PP50/  
PP60

## Overview

- For approx. 40 slave clocks (24 V DC, 300 mA, pole changing pulse)
- Short-circuit proof
- Automatic adjustment of the slave clocks
- Automatic time correction of slave clock/s after supply voltage interruption
- Repetition of the last applied minutepulse
- 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 / GPS 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 / GPS function
- External input 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 98.47 pro	1 Slaveclock line 4 channels

# MASTERCLOCKS

## müller SC 98.47 pro

### Order information

	Voltage	EAN	Art. No.
<b>SC 98.47 pro</b>	230 V 50-60 Hz	4022709216236	21623

### Technical data master clock unit

Output voltage	24 V DC
Output current	300 mA
Max. number slave clocks	approx. 40 slave clocks à 7 mA
Output signal	Pole changing pulse
Pulse sequence	Normal operation 1/min.   during adjustment = 10/Min.
Pulse length	ca. 2 Sec. (adjustable)

### Technical data

Supply voltage	230 V, 50-60 Hz
Power consumption (real power)	Time switch: 1,3 -3,5 W (depending on the switching status) Master clock: 2,0 - 4,6 W (depends on the installed slave clocks)
Channels (potential-free)	Change-over, contact gap < 3 mm (µ)
Contact material	AgSnO <sub>2</sub>
Switching capacity per channel	
resistive load:	16 A / 250 V~ at cosφ=1
inductive load:	10 A at cosφ=0,6
Min. switching power	1.000 mW (10 V / 10 mA)
Max. starting current	50 A
Filament Lamp, Halogen Lamp	2.000 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)
Program security	unlimited (E <sub>2</sub> -Prom)
Display	high resolution LCD (visible area 12,8 cm <sup>2</sup> )
Permitted ambient temperature	-30...+50 °C
Housing	self-extinguishing thermoplastic
Dimensions	45 x 143 x 58 mm
Mounting	35 mm DIN-rail
Type of connection	Screw terminals (Pull-up type)
Type of protection	IP 20 to DIN EN 60529
Class of protection	II 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   Mini terminal box 8PLE

