

# MASTERCLOCKS

müller SC 95.47 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. 200 slave clocks (24 V DC, 1.5 A, pole changing pulse)
- No extra power supply unit needed (24 V 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
- 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
- Frontswitch (potential-free) can be used to control an arbitrary application

## 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
- 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
- Data security through non-volatile memory
- Programmable with PC (Accessory Data-key DK pro and Programming package PP 50 pro / PP 60 pro)

## 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

■ m ü l l e r

SC 95.47 pro

1 Slaveclock-line  
4 Channels

# MASTERCLOCKS

## müller SC 95.47 pro

### Order information

|                     | Voltage                  | EAN           | Art. No. |
|---------------------|--------------------------|---------------|----------|
| <b>SC 95.47 pro</b> | 230 V 50-60 Hz & 24 V DC | 4022709230065 | 23006    |

### Technical data master clock unit

|                          |                                                         |
|--------------------------|---------------------------------------------------------|
| Output voltage           | 24 V-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             | approx. 2 sec. (adjustable)                             |

### Technical data

|                                                       |                                                                                                                                             |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                      | AgNi                                                                                                                                        |
| Switching capacity per channel                        |                                                                                                                                             |
| resistive load:                                       | 5 A / 250 V~ at cosφ=1                                                                                                                      |
| inductive load:                                       | 5 A at cosφ=0,6                                                                                                                             |
| Min. switching power                                  | 300 mW (5 V / 5 mA)                                                                                                                         |
| Max. starting current                                 | 30 A                                                                                                                                        |
| Filament Lamp, Halogen Lamp                           | 400 W                                                                                                                                       |
| Fluorescent Lamp with electron. lamp ballast          | 100 W                                                                                                                                       |
| Fluorescent Lamp with convent. lamp ballast           | 100 W                                                                                                                                       |
| LED (230 V~) / CFL                                    | 50 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 cm²)                                                                                                 |
| 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                                                                                                                                        |
| Frontswitch                                           | potential-free frontswitch<br>5 A / 250 V~ at cosφ=1                                                                                        |
| 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 |

