

## **PEWETA Data Bus RS485** integrates LED digital clocks into a professional, flexible clock system. Down to the very second!

master

power supply 230V/50 Hz

RS485

data bus

In addition to conventional synchronisation of digital clocks by a pulse or a telegram received from a master clock, PEWETA offers a specific time telegram for digital clocks: PEWETA data bus RS485.

PEWETA LED digital clocks, type data bus RS485 master are capable of synchronising and controlling up to 32 other LED digital clocks/stopwatches, type data bus RS485 slave, through an interface.

Besides transmission of time and date, LED digital clocks with stopwatch mode can be specifically addressed and operated by one or multiple remote control units via PEWETA data bus RS485.

Typical areas for the use of this networking technology are hospital operating theatres, the "media environment" of radio and television studios as well as situation centres and map rooms, World Time Clock Systems or any other environment, where precise time and date information, transmitted professionally, must be accessed reliably.

## PEWETA data bus RS485

PEWETA data bus RS485 can be used to combine LED digital clocks into a network and thus build a sophisticated time system. Data are symmetrically transmitted via an RS485 interface.

By means of PEWETA data bus RS485, up to 32 LED digital clocks can be combined into a high-performance network.

One of the LED digital clock will be fitted with a master clock function to serve as a master, while the other LED digital clocks will be configured as slaves.

Digital distribution of the entire time and date information is a safeguard for fast and continuous synchronisation.

Even in case of a disruption (line fault, etc.) of the RS485 data bus, all LED digital clocks of the slave type continue to serve as fully adequate clocks with quartz-based operation.

After clearance of a line fault all slaves will automatically, within a few seconds, return to displaying current time and date.

## **Stopwatch function**

slave

By means of wire-based remote control units every LED digital clock connected to the PEWETA data bus RS485 can be turned into a stopwatch (option). PEWETA data bus RS485 will safeguard count-up and count-down functions of all stopwatches integrated, synchronous down to the second. Since each LED digital clock integrated into the system can be addressed individually, the remote control unit can on one hand trigger several stopwatch displays simultaneously. These can also be located separately. On the other hand, several remote control units, e.g. located at different desks, can trigger the functions of a single stopwatch.

The respective settings favoured must be configured upon installation.

Additionally, the active »Basic PRO« remote control unit (type series 548) can address one or more selected slaves directly. The display on the remote control unit can be used as an additional desk display and or to show start values entered.

## **Advantages**

New York

1.78 Berlin

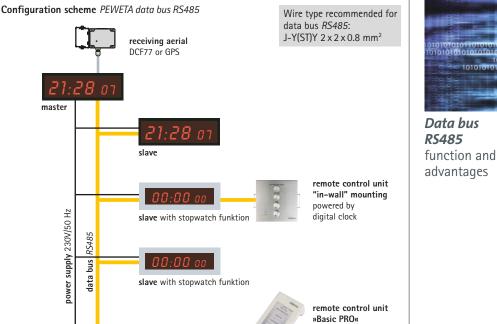
London

slave as World Time Clock

- PEWETA LED digital clocks of *master* type serve as the master clock controlling the slaves connected but additionally display the usual time (and date). Thus, a standard master clock is not required for this clock system but can, however, be employed to synchronise the master.
- All PEWETA LED digital *slave* clocks will be set to current time and current date within seconds.
- Each PEWETA LED digital clock is available in a PEWETA data bus RS485 version.

The LED digital master clock can be synchronised by one of these options:

- a DCF77 or GPS receiving aerial
- 24 V minute pulses from a PEWETA Master Clock
- DCFport24 telegram from a PEWETA Master Clock
- AirPort24 radio telegram from a PEWETA AirPort24 Transmitter
- LAN as an NTP client.



powered by

digital clock