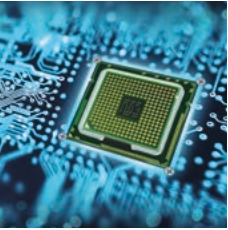


Master Clock/Signalling Master Clock

DCF77, GPS or NTP/LAN controlled (customer's choice)



Master Clocks/
Signalling
Master Clocks
and extras

Type series
920

Type series
925



10.920.122 shown

Typical performance data

Control of slave clocks

- **1, 2 or 4 slave clock lines**
- **Pulse Mode 12/24 V**, may be selected for each line as
 - alternating polarity minute pulse
 - alternating polarity half-minute pulse
 - alternating polarity second pulse
- **DCFport24 pulse telegram**
- **AirPort24 radio telegram** (in combination with an *AirPort24* transmitter)
- **Pulse duration** is adjustable from .2 sec to 9.9 sec.
- **Total output power** is 1 A at 24 V (2 A at 12 V) line voltage to control up to
 - 160 conventional slave clocks (at 6 mA/24 V each) or up to
 - 40 PEWETA *DCFport24* pulse telegram slave clocks (12 V). With a pulse amplifier (Item Number 10.930.124), the system may be expanded by up to 125 PEWETA *DCFport24* pulse telegram slave clocks
 - an unlimited number of *AirPort24* radio telegram slave clocks (in combination with a PEWETA *AirPort24* transmitter (Item Number 10.940.100) and a PEWETA *AirPort24* repeater (Item Number 10.941.100) respectively

- **Simultaneous operation** of conventional slave clocks and *DCFport24* pulse telegram slave clocks is possible (2 slave clock lines minimum)
- Optional **power outage reserve**, selectable for individual slave clock lines. A rechargeable NiCd battery, 24 V/6 Ah for 24 V lines or 12 V/1.2 Ah for 12 V lines, provides for continued operation of all connected clocks in case of a mains power outage
- Electronic **memory** and automatic update function will, upon return of mains power (e. g. after a mains outage) immediately readjust all connected clocks to current time
- **Slave clock lines with voltage and current surveillance**. Mains power outage, overload (or low voltage when operating in memory mode) in the clock control line will cause an alarm by red LED and alarm flag in the display. A free-floating switch contact is available to trigger an external alarm device.
- **Slave clocks will automatically be stopped when low voltage is detected**
- **Secondary Master Clocks** for expanding the clock system may be synchronised by the *DCFport24* output
- For the **control of world time displays** 26 pre-programmed zone times and one freely configurable zone time may be, at customer's choice, assigned as system (local) time or to any slave clock line

- **1 RS232 serial interface** (output) is available for continuous transmission of time-and-date information in ASCII format.

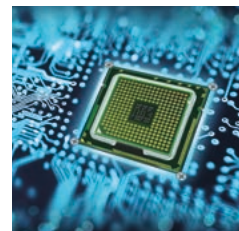
Signalling device

- 0, 2 or 4 programmable signal contacts (switch points/free-floating contacts) capable of 250 VAC/2 A
- Choice of program run for a day, a week or a year
- Up to 600 switch actions programmable
- ON/OFF switching or pulse action
- Fastest possible switching sequence: 1 second
- Reprogrammable every day, week or year, block-building is possible
- Fixed-program calendar through 2099
- Data retention on power outage > 5 years.

Additional performance data

- Input terminal for radio control by DCF77, GPS, MSF or similar is available as an option
- NTP input terminal (RJ45) for synchronisation by LAN (option)
- Alphanumeric LCD display for user-friendly dialog-type navigation, time-and-date readout and alarm indications
- Multilingual navigation, 7 languages selectable: English, French, Spanish, Portuguese, German, Italian and Dutch
- Keyboard locked, accessible by PIN-code only.

Technical data		
Case	width x height x depth	cir. 240 x 184 x 115 mm
	material	Lexan 500R/940 A
	colour	RAL 7035 (light grey)
	weight	cir. 2.5 kg (incl. power outage batteries)
Milieu	VDE classification	I
	protection grade (EN 60 529)	IP 32
	surrounding temperature	0 °C up to 40 °C
Electrical values	mains voltage	220..230 V AC/50 ... 60 Hz
	power consumption	10 ... 53 VA
	line voltage/pulse mode	12 V or 24 V
Total power output	12 V minute pulse	2000 mA max. (for up to 160 slave clocks at 12 mA)
	24 V minute pulse	1000 mA max. (for up to 160 slave clocks at 6 mA)
	12 V half-minute pulse	2000 mA max. (for up to 160 slave clocks at 12 mA)
	24 V half-minute pulse	1000 mA max. (for up to 160 slave clocks at 6 mA)
	12 V second pulse	400 mA max. (for up to 30 slave clocks at 12 mA)
	24 V second pulse	200 mA max. (for up to 30 slave clocks at 6 mA)
	DCFport24 pulse telegr. 12 V	500 mA max. (for up to 40 slave clocks at 10 mA)
DCFport24 pulse telegr. 24 V	250 mA max. (for up to 20 slave clocks at 10 mA)	



**Master Clocks/
Signalling
Master Clocks
and extras**

Type series

920

Type series

925

Type	Number of slave clock lines	Number of signalling contacts	Power outage reserve 0,6 Ah/24V	Item No.	€ each
Master Clock	1	none	none	10.920.010	615.-
	1	none	yes	10.920.110	765.-
Signalling Master Clock	1	2	none	10.920.012	780.-
	1	2	yes	10.920.112	930.-
Master Clock	2	none	none	10.920.020	705.-
	2	none	yes	10.920.120	855.-
Signalling Master Clock	2	2	none	10.920.022	870.-
	2	2	yes	10.920.122	1,020.-
	2	4	none	10.920.024	1,060.-
	2	4	yes	10.920.124	1,210.-
Master Clock	4	none	none	10.920.040	890.-
	4	none	yes	10.920.140	1,040.-
Signalling Master Clock	4	4	none	10.920.044	1,240.-
	4	4	yes	10.920.144	1,390.-



Options	Suffix	Surcharge € each
Input for GPS radio control, incl. GPS aerial (IP 65/EN 60 529)	-95	695.-
NTP input for system time synchronisation via LAN	-98	298.-

DCF77 Receiving Aerial for all type series 920 Master Clocks



03.925.111 shown

The DCF77 time signal telegram, as transmitted by the German time signal transmitter at Mainflingen near Frankfurt/Main, is a superior time standard for synchronization and automatic change from summer to winter time of radio controlled stand-alone clocks and master/slave clock systems. This PEWETA DCF77 aerial provides time-and-date information to all PEWETA Master Clocks and Signalling Master Clocks.

- Weatherproof plastic case (IP 68), for indoor/outdoor mounting, dimensions (WxHxD) cir. 100x65x37 mm
- Stainless steel mounting bracket
- 5 m connecting wire (LIYCY 4x0,25 mm²) included in delivery shipment, may be extended to a maximum length of 100 m.

Type	Item No.	€ each
External DCF77 receiving aerial (IP 68), for PEWETA Master Clocks	03.925.111	149.-

