WDP-Y2 ETH
Master Clock in 19", 1U casing

General

The WDP-Y2 ETH forms a combination of a Master Clock for control of slave clocks, an NTP Time Server and a yearly programmer with 2 outputs for controlling different energy consumers such as electrical striking plates, buzzers for pause signalling etc.

All parameters such as type of impulse system, impulse length, network parameters etc. can configured by the user. It is also equipped with an automatic measurement function which measures the impulse voltage and current.

The programmer has fixed public holidays and summer/winter time changing pre-programmed. The unit offers full flexibility with regard to programming working days between holidays, public holidays to weekdays, holiday periods etc. A total of 800 signal points can be programmed over the 2 relay outputs.

- Fully automatic correction of summer/winter time and preprogrammed calendar.
- Easy to program by simple YES/NO instructions over the easy to read 2x16 character backlit LCD display.
- To achieve absolute accuracy, radio synchronization with the transmitters of time code signals type DCF77 (Germany), MSF (Great Britain) or GPS is available as option.
- Electronic short circuiting protection which resets automatically, transient protection, as well as protection against overload.
- In case of short circuiting on the slave clock line, resetting of the connected Slave Clocks are automatically made.
- LED-indication of Power On, Impulse Output, alarm and receipt of external time synchronization.
- 72 hour impulse memory. After a power failure the connected slave clocks are automatically reset by rapid impulses.
- Built in serial communication port type RS232/485.
- Built in Ethernet 10/100BaseT for time (NTP) and alarm distribution as well as remote control.

Technical data

General
Article number: 123339-00
Time accuracy: +-0.1 sec. /24h (at +20°C, without external synchronization)
External synchronization: GPS, NTP, DCF-77 (Germany), MSF Rugby (Great Britain), Minute impulse, Time Code TC, RS-232 or RS-485. Programmable alarm limits
Running reserve: Real time clock with 72 hour impulse memory

Impulse output
Max. load impulse output: 1A. (The output is equipped with short circuit protection which resets automatically.)
Output type: Selectable 1/1 minute, 1/2 minute, second, or Time Code (TC) impulses Programmable alarm limits
Type of time: Local time, Normal time and UTC (Coordinated Universal Time)
Impulse length: Minute impulse: 2 sec. selectable 0.1 to 9.9 sec.
                            Second impulse: 0.5 sec. selectable 0.1 to 1 sec.

Relay outputs
Number of outputs: 2 Changeover potential-free contacts.
Max load/relay output: 230 V 6A.
Program memory: 100 year (EEPROM).
Signal points: 800

LAN connection
Protocols supported: NTP version 1, 2, 3 and 4, RFC5905, SNTPv4, RFC 4330
(For time distribution)   Daytime Protocol (RFC867), Time Protocol (RFC 868)
Other supported protocols: SNMP v2c, MIB II (RFC1155, RFC1157, RFC1213), HTTP, HTTPS
Transport protocol: TCP, UDP/IP, ICMP
Internet Protocol: IPv4, (IPv6 ready)
IP-address assignment: Dynamic, using DHCP, or fixed IP-address
VLAN support: IEEE standard 802.1Q
Compatibility: Ethernet version 2/IEEE 802.3
Ethernet: Supports 10/100BASE-T (RJ45) connections
Device Management: Web-Based (requires web browser)

Power Supply
Connection voltage: 100 - 240V 50 Hz
Power consumption: 30 W (max)

Environmental conditions
Temperature range: 0°C to +40°C
Relative humidity: Max. 85% non condensing
CE-approval EMC   Emission: EN 50121-4:2016, EN 61000-6-3:2007, EN61000-6-4,
                            Immunity: EN 50121-4:2016, EN 61000-6-2:2005, EN 61000-4-2, -3, -4, -5, -6, -11

Enclosure:
Housing: 19" aluminum case, color RAL 7030 and RAL 7035
Measurements: H = 44.5 mm (1U), W = 446 (484) mm, D = 210 mm (excl. connectors)
Weight: 1.6 kg

Accessories/options

- Signal receiver GPS   122980-51
- Signal receiver DCF-77   122984-40
- Internal running reserve   122391-00
- External Running Reserve 2.0 Ah   122998-00