



Mini Central



General

The Mini Central forms a combination of a quartz Master Clock with 6 different impulse groups (amplifiers) for control of slave clocks, and a yearly programmer with 2 outputs for controlling different energy consumers such as electrical striking plates, buzzers for pause signalling etc.

The Mini Central is most flexible as all parameters such as type of impulse system, impulse length, etc. can be set individually for each group. It is also equipped with an automatic measurement function which measures the voltage and current for each group.

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 4x20 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.
- Alarm relay output with programmable alarm limits
- 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: 123864-00
Time accuracy: ± 0.1 sec. /24h (at $+20^{\circ}\text{C}$, 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 outputs

Number of outputs: 6
Max. total load: 4 A (total current of all outputs)
Max. total load one output: 2 A
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.
The output is equipped with short circuit protection and automatic reset

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

Alarm output

Sum alarm: One-polar potential free changeover relay contact
Max. load: 230V AC 6A
Alarm types: External time synchronization, low impulse voltage, short circuit, low current, high current.

LAN connection

Protocols supported: NTP version 1, 2, 3 and RFC 1305, RFC5905
(For time distribution) SNTP, RFC 1769
Other supported protocols: SNMP v1 Enterprise MIB (RFC 1155 - 1157), HTTP
Transport protocol: TCP/IP
IP-address assignment: Dynamic, using DHCP, or fixed IP-address
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: 90 - 264V 50 Hz and/or 24 V DC -5% +20 %.
Max ripple (24V DC): 0,7V RMS.
Power consumption: 108 W (max)

Environmental conditions

Temperature range: 0°C to $+40^{\circ}\text{C}$
Relative humidity: Max. 85% non condensing
CE-approval EMC: EN 61000-6-2, EN 61000-6-2, EN50121-4:2000

Enclosure:

Housing: Wall mounted grey Polystyrene plastic with transparent front
Measurements: Height=217mm, Width =265mm, Depth =135mm
Weight: 1.7 kg
Protection class: IP65