Master Clock

CompuTime Center CTC

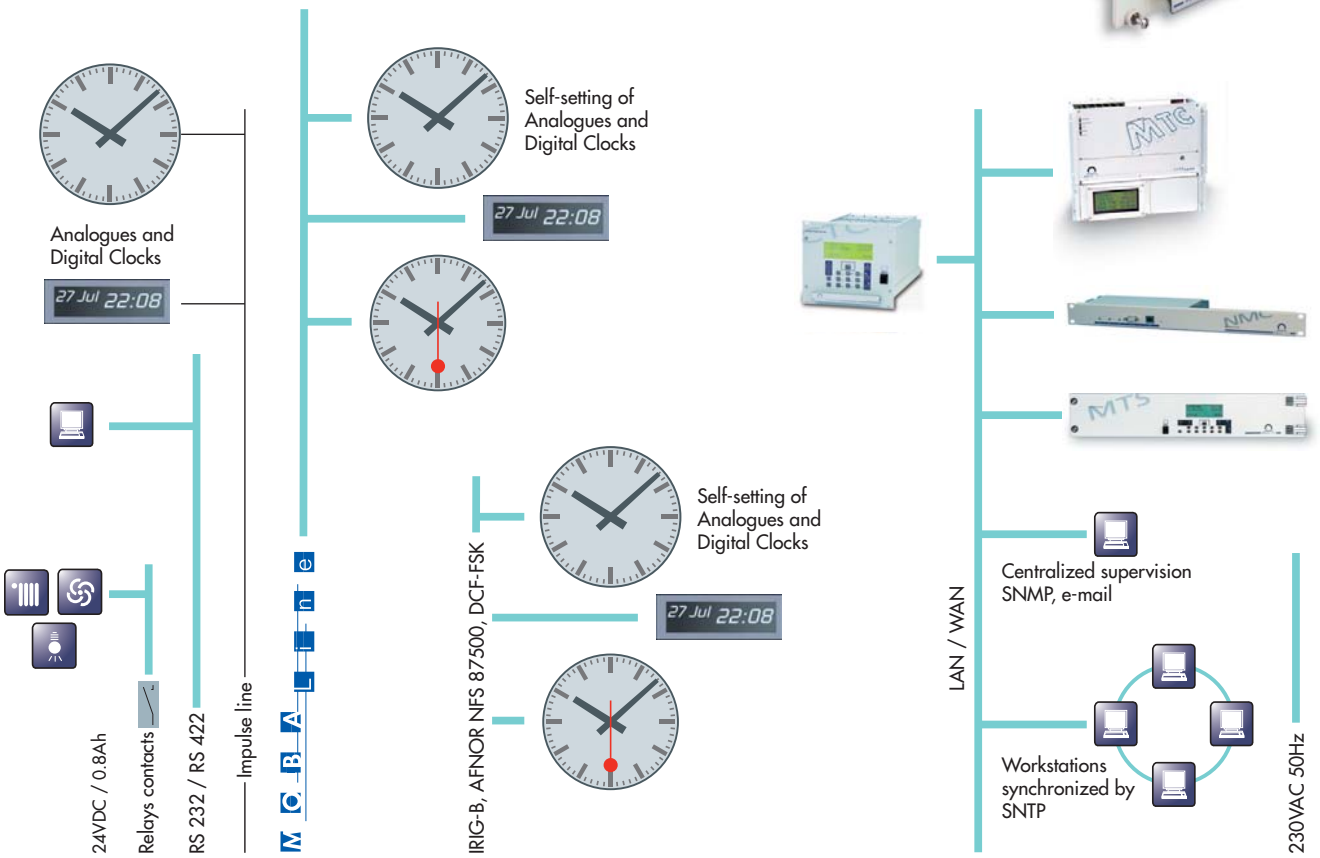
The reliable, modern and modular concept with its configuration flexibility gives an unconditional asset to any new installation. Due to its multiline architecture the CTC is suitable for a wide range of applications.

The different types of outputs provide the facility of controlling traditional or self-setting slave clocks as well as LAN based systems.

CompuTime Center CTC

CTC à la carte

The CTC's modular design allows numerous different configurations according to your requirements.

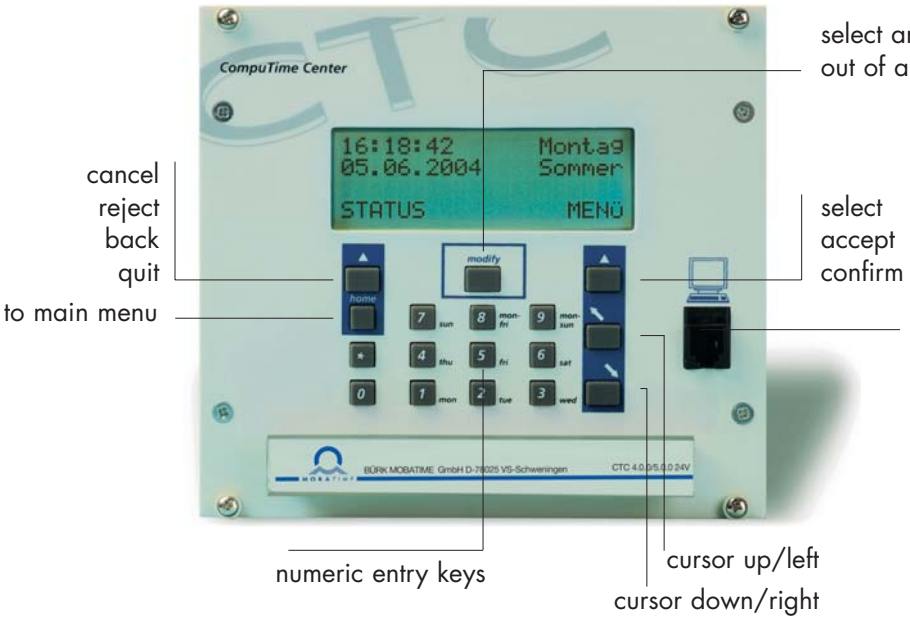


AB 2.0.8 Battery Back-up
AB 9.0.0 Programm Module
AB 4.1.0 Serial Communication
AB 4.0.0 Impulse Line
AB 4.3.0 *MOBALine* Driver
AB 4.2.0 Time Code Generator
AB 1.3.3 Network Processor
AB 5.0.0 Power Supply

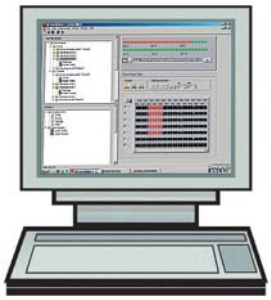
CTC's Selection of Application Boards

User-friendly

Easy and intuitive programming, configuration and supervision of the master clock due to CTC's intelligible user interface.



PC-Link



Windows application to edit and download:

- Switching programs for relays
- Time zones table
- Software updates

World Time Management

Each output is individually allocated to one of the 100 entries of the time zone table determining:

- Time offset to UTC (Universal Time Coordinated)
- Beginning and end of daylight saving time

CTC's General Specifications

Master clock equipped with: alphanumeric display 4x20 characters and backlight.
RAM and Real Time Clock with battery back-up. Flash-memory for application program.
Three slots for application boards.

Dimensions	Rack-mounting case 3HU x 28UW (142 x 128 x 230mm)
Power Supply	24–60VDC or 230VAC (50/60Hz) +/-10% using AB 5.0.0 or AB 5.0.1
Ambient Temperature	0 to 50°C/10–90% relative humidity, non condensing
EMC and Safety Test	according to EN50081-1 / EN61000-6-2 / EN50121-4 / EN60950
Accuracy	absolute with radio reciever DCF or GPS, +/- 0.1 s per day at 20°C +/- 5°C (autonomous operation)
Display and Keyboard	4x20 characters, alphanumeric, backlight, 17 keys, numerical 0–9
Synchronization Inputs	1 x RS 232, 1 x RS 422, 1 x DCF 77 , 3 inputs for twilight switches.
Synchronization Outputs	1 x 1pps with GPS only, 1 x DCF 77 current-loop synthetic code. Isolated alarm contacts. Internal or external battery back-up is available.

CTC's Application Board

	Power Supply	Slot 1	Slot 2	Slot 3	Battery
AB 4.0.0 4x Impulse Line Driver each line selectable as second, half-minute, 1/8-minute, minute impulse or DCF, up to 1A per line		●	●		
AB 4.0.1 2x Impulse Line Driver each line selectable as second, half-minute, 1/8-minute, minute impulse or DCF, up to 1A per line		●	●		
AB 4.1.0 2x Serial Communication 2 independent RS 232 / RS 422 interfaces (mode selectable), plain text script for versatile configurations of the serial time telegrams, time transmission periodically or on request, supervision of the connected device by loop-back of the time information or by checking alive-messages, 2 strobe pulse outputs: photocoupler, 1ps, 1ppm, 1pph or 1ppd, selectable, +/-100µs if synchronized with GPS receiver, adjustable compensation of propagation delay.		●	●	●	
AB 4.3.0 2x MOBA*Line* Driver to control self-setting analogue and digital clocks, computer interfaces and switching relays, switching program for up to 64 relays (channels).		●	●		
AB 4.2.0 2x Time Code Generator Output IRIG-B, AFNOR NFS 87500, DCF-FSK RI < 50Ω, Ua = 0.7 Veff, adjustable ±10 dB		●	●	●	
AB 1.3.3 Network Processor Module Connection via TCP/IP, Ethernet to LAN/WAN. Numerous services: SNTP-server, SNTP-client (as CTC's master clock), SNMP/e-mail alarm reporting		●	●	●	
AB 9.0.0 4x Program Module 4 relays outputs (make contact), 230VAC with up to 1250VA load each. The intelligible operation control allows an easy programming, as an option: download-software for PC		●	●	●	
AB 5.0.0 Mains power supply and battery charging Input: 230VAC (50/60Hz) +/-10%, Output 24V / 2.5A	●				
AB 5.0.1 Mains power supply and battery charging Input: 230VAC (50/60Hz) +/-10%, Output 48V / 1.2A	●				
AB 5.0.2 Mains power supply and battery charging Input: 230VAC (50/60Hz) +/-10%, Output 60V / 1A	●				
AB 2.0.8 Internal battery 24V / 0.8Ah					●
AB M24-3.2 Battery supply module 24V /3.2 Ah, 3x 28 units (external battery)					

Applications

- Airports
- Railway Stations
- Underground Stations
- Hospitals
- Schools, Administrations
- Public Buildings
- Industries

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