

NETWORK CLOCK CONTROLLER

NCC V2

The NCC V2 is a network interface for single- or double-sided clocks. It provides a cyber secure network connection including a web interface, which allows the clock to be synchronized via NTP. Inside the clocks it controls and monitors up to two movements, the LED illumination and optionally a connected impact sensor.

MAIN FEATURES

Synchronization

- NTP synchronized
- Up to 4 NTP servers configurable

MOBALine output for movements

- Drives up to two movements
- Control of the different running modes for the second and minute hand: stepwise or continuous
- Monitoring of the movements
- Control of operation mode: normal or 12:00 position

Illumination

- Drives one or two illumination circuits
- Brightness configurable via web interface
- The illumination is controlled by the following means:
 - manually on/off
 - controlled by a switch program (uploaded as XML-file, created with Switch Editor Basic)
 - illumination input for an 230VAC control signal (AC and VB variants only)
- Supervision of the LED circuits including error reporting in case of failures

Power supply

- PoE or PoE+ power supply via network (PoE limited power)
- Mains power Input (AC and VB variants only)
- Power reserve for running clocks to 12h position if power is lost (NCC V2 VB variant only)

NETWORK FEATURES

- Integrated web interface for device configuration and monitoring
- Device monitoring
 - Syslog (RFC 5424)
 - SNMP get/traps (v2c/v3), SNMPv3 with authentication and encryption
- IP configuration: IPv4 (DHCP, static IP), IPv6 (autoconfiguration, DHCPv6, static IP)
- SSDP (Simple Service Discovery Protocol) for device discovery
- RESTCONF API for monitoring and configuration

Cyber Security

- Secure by design: hardware-based security (secure boot), encrypted user data, encrypted and signed firmware image
- Secure access to the device with HTTPS
- Security features according IEC 62443-4-2
- Individual random default password

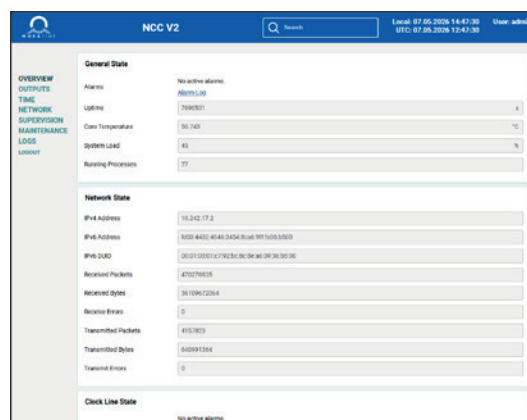


	NCC V2	NCC V2 AC	NCC V2 VB
Power supply	100 – 240VAC, 50/60Hz / max. 30W ¹ PoE: max. 15.5W PoE+: max. 25.4W		
Operating temperature	-30 to +70°C (0 to 95% relative humidity, non-condensing)		
Standards	EN 61000-6-2 / EN 61000-6-4 / EN 50121-4 / EN 62368-1		
Degree of protection	IP 20		
Weight	160g	220g	240g
Dimensions	165 x 65 x 35mm		
Illumination	700 mA @ 24V (brightness limited when using 15.4W PoE supply)		
Signalization	LEDs: power, synchronization, error, illumination status		
Clock line functionality	Supports synchronizing, powering and monitoring MOBALine movements. Max. 100 mA @ 20V		

¹only for AC/VB versions

Order information

PRODUCT NAME	ART. NO.	POWER SUPPLY		Illumination switch	Power reserve	Shock detection
		PoE/PoE+	Mains			
NCC V2	138422	✓				
NCC V2 AC	138423	✓	✓	✓		
NCC V2 VB	138424	✓	✓	✓	✓	✓



*Do you have any questions?
We are happy to help.*

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