

Installation Instruction for NTP clocks

1. General rules



The mains supply for the clock must be installed only by a licensed electrician. National installation regulations must be adhered.

Please provide a cable with a wire cross section of maximum 2.5 mm².

The clock is not equipped with a mains plug. An all-pole disconnecting device must be provided in the on-site supply. For movement and illumination power supply, the same power phase (nom. 230 VAC) must be used.

The fuses should be chosen according to the power consumption of the device.



For all maintenance and cabling work, the clock has to be separated from mains.



For safety reasons avoid to look directly into the LEDs.

2. Handling reference

1. The clock should be transported upright in its original packaging and must be stored dry.
2. Clean the cover glass with wet (leather-) cloth.
3. Never use solvents, aerosol or organic cleaning products.
4. The housing is to treat with standard cleaning agents.

3. Internal Connections

The internal wiring is made in the factory. It's important not to modify the internal wiring.

4. External Connections

Dismantle the insulation of the connecting wires on a length of 8 – 9 mm and insert the wires up to the isolation in the terminal. The spring terminal can be opened with a screw driver size 0.

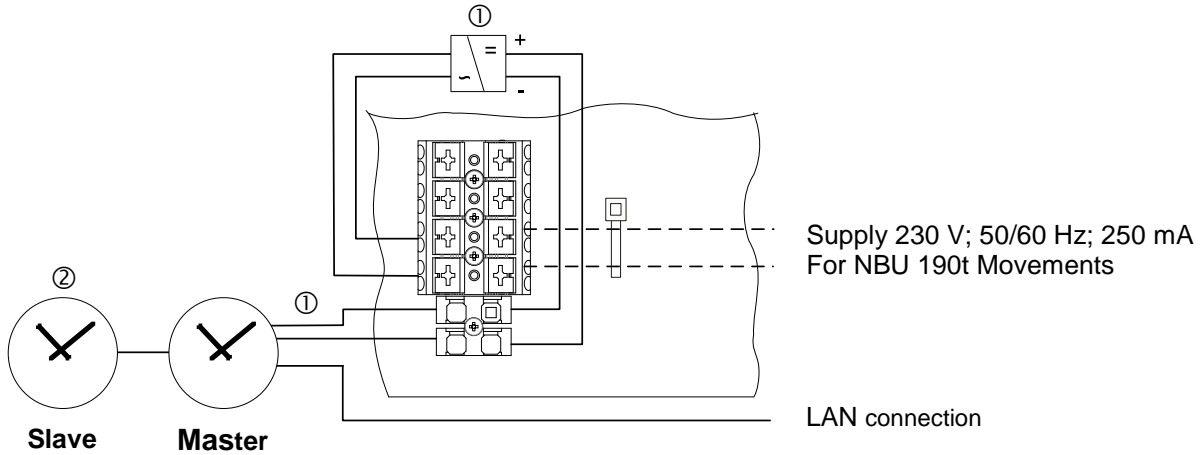
Phase and neutral wire must be kept together close to the terminal using a cable tie.

Specifications can be changed without notice

5. Connection diagram for clocks with LED illumination

Signal	Movement code	Type of movement
LAN/NTP	N00...N13	NBU 190...

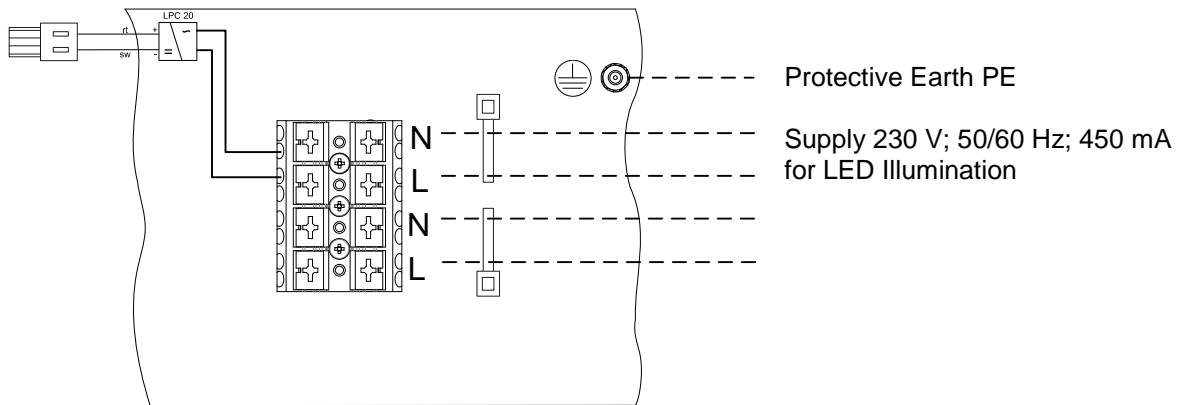
Network clock with NBU 190t (S) movement(s), powered by 230 VAC / 50 - 60 Hz



- ① Power supply not needed, when NBU 190 movements are PoE-supplied
- ② Movement 2 (only in double-sided clocks)

Network clock with NBU 190t (S), PoE (Power over Ethernet, Class 2) powered

Power supply for LED-illumination



Fix phase and neutral with a cable tie.

With both types of clocks the Ethernet/LAN cable must be directly connected to the Master movement.