

## DATASHEET

<b>Product Name</b>	<b>Digital LED Wall Clock</b>	
<b>Type / Model</b>	<b>NDC 100/4 R L20 12DC LAN</b>	
<b>Order Code</b>	<b>ZZ0934-5.00</b>	Date of last revision: 26.01.2022



### Product Description

The **NDC 100/4 R L20 12DC LAN** is a large size digital LED clock, which can display time and date information. Its aesthetic design and high brightness LED display with large viewing angle makes it suitable for use in modern interior environments such as offices, banks, public institutions, bus and railways stations, airports, manufacturing plants, production lines, warehouses, etc. All displaying parameters (e.g. time, date, duration of each information, brightness, etc.) can be set with the remote control or PC software application via LAN connection.

The clock is equipped with a LAN interface, which allows its integration into a unified time system and synchronization with NTP server or other clocks in the network using LAN Ethernet TCP/IP connection with Modbus TCP protocol.

Clock installation is easy, wall mounting bracket, power supply adapter and installation guide are included.

Various optional accessories are available, please see the list and brief description below.

### Main Features

- Displaying **TIME** and **DATE**;
- Displaying format: **HH:MM** (hours : minutes) and **DD:MM** (day : month);
- **100 mm** (4") digit height, up to **40 m** readability;
- High-brightness LEDs with large viewing angle 120°;
- Alternating of each information and its duration can be set from 0 to 99 sec;
- Automatic or manual LED brightness control (built-in light sensor);
- Stylish frame made of anodized aluminum profile;
- Tinted acrylic glass with non-glare surface;
- Wireless setup using IR remote control;
- **LAN interface** - allows building a unified time network and synchronization with NTP server;
- Can be set as Count-up or Count-down timer/counter (with optional trigger input and Relay switch output);
- Built-in time scheduler for triggering alarm events, e.g. time breaks, work shifts (with optional Relay output).

### Optional Accessories - can be ordered separately as required

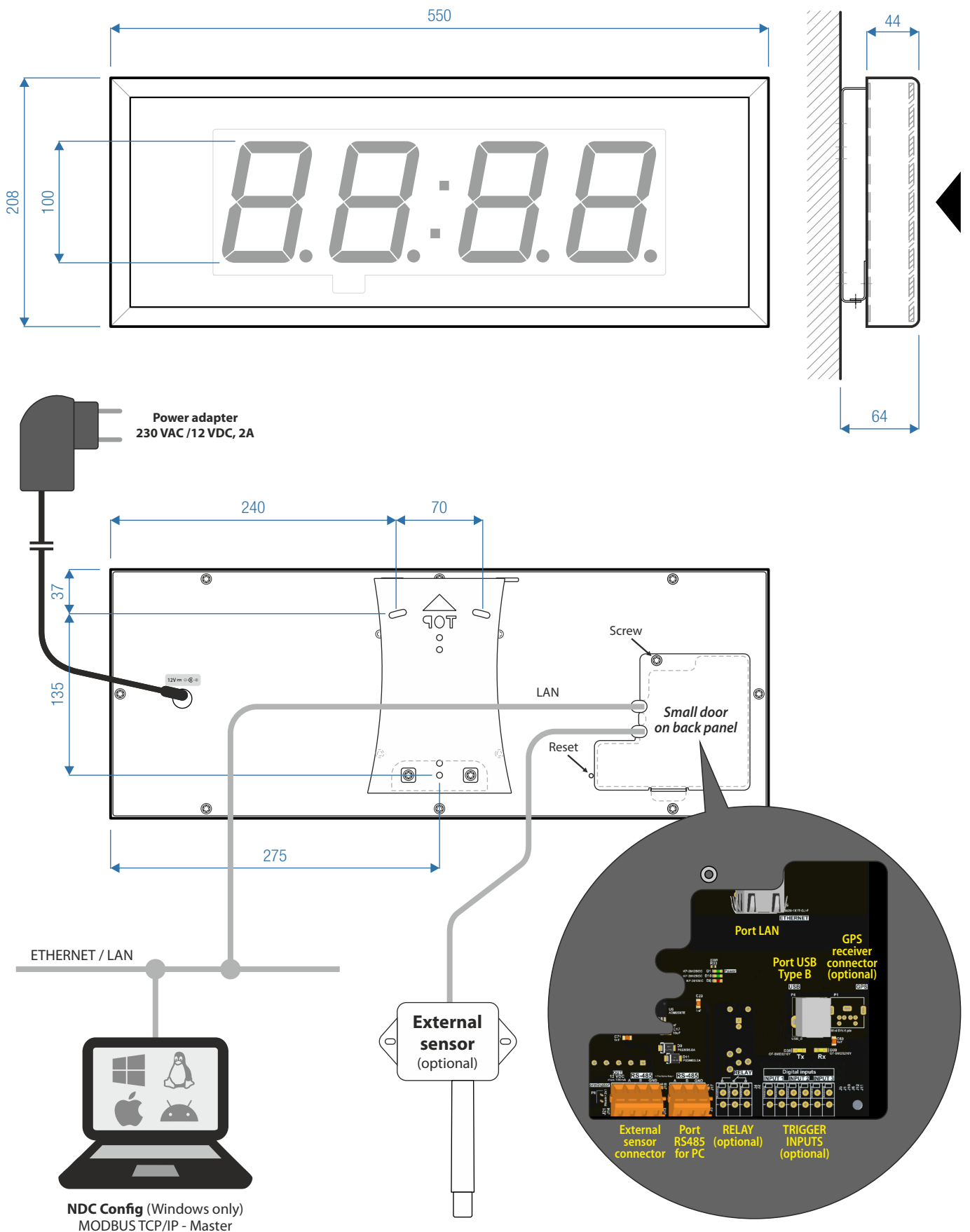
- Remote control IR:
  - At least 1 pc. is necessary to be purchased with clock.
  - In case of purchasing more clocks, only one remote control is needed.
- Temperature and humidity sensor:
  - External: THS Sensor 52 12DC RS485, THS Sensor 40 LAN, or THS Sensor 40 12DC WiFi
- Relay voltage-free contact switch
  - Can be used for triggering external device (e.g. acoustic or light alarm)
- Counter / timer input
  - Used for triggering counter or timer events (e.g. count-down, count-up)
- GPS interface and GPS receiver
  - Used for time synchronization with GPS satellite

## Clock Specifications

<b>Number of characters</b>	4
<b>Height of characters</b>	100 mm
<b>Displaying format</b>	88:88, HH:MM (time), DD:MM (date), XX.X° (temperature), XX rH (relative humidity)
<b>Readability range</b>	Up to 40 meters
<b>LED type</b>	Super-bright 7-segment LED modules
<b>LED colour</b>	RED
<b>Viewing angle</b>	120°
<b>Time accuracy</b>	+/- 4 sec. max deviation per month, when no external time synchronisation is used
<b>Frame construction</b>	Anodized aluminium frame, steel back panel coated with black powder paint
<b>Frame colour</b>	Platinum grey (see picture on page 1)
<b>Front cover</b>	Non-glare PMMA glass, grey tinted, 3 mm thick
<b>Class of protection</b>	IP 20, indoor use only
<b>Interfaces</b>	1x IR, for remote control (used for setting clock parameters) 1x LAN Ethernet, for interconnecting with other clocks in unified time network, or other devices (e.g. external temp/humidity LAN sensor, GPS receiver). Used also for setting clock parameters via built-in Web Server.
<b>Communication protocol</b>	Modbus TCP
<b>Power supply</b>	Power adapter 230 VAC /12 VDC, 2A (included)
<b>Power consumption</b>	10 W max.
<b>Dimensions</b>	550 mm x 208 mm x 64 mm
<b>Weight</b>	3,1 kg
<b>Operating temperature</b>	0°C ~ +70°C (indoor use only)
<b>Accessories included</b>	Wall mounting brackets, screws and fasteners, power supply adapter, manual
<b>Software for PC (Windows) - available for download</b>	DataLoggerTH - used for recording and viewing temp/humidity data on PC Web Server - for setting clock parameters using web browser, already built-in

\* **Note:** *Displaying temperature and humidity requires external sensor (sold as optional accessory).*

**Dimensional drawing**



## View options

Time



Date

