

## DATASHEET

<b>Product Name</b>	<b>Digital LED Wall Clock</b>	
<b>Type / Model</b>	<b>NDC 57/4 THS R L20 12DC USB</b>	
<b>Order Code</b>	<b>ZZ0945-3.00</b>	Date of last revision: 26.01.2022



### Product Description

The **NDC 57/4 THS R L20 12DC USB** is a large size digital LED clock, which can display time, date, temperature and humidity 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 USB connection.

Clock installation is simple, 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, DATE, TEMPERATURE** and **RELATIVE HUMIDITY**;
- Displaying format: **HH:MM** (hours : minutes) and **DD:MM** (day : month);  
**XX,X°** (temperature in °C) and **XX rH** (relative humidity in %RH);
- **57 mm** (2.3") digit height, up to **23 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;
- USB interface for PC connection and setup using NDC\_config sw application;
- 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:
  - Internal (plug-in probe): THS Sensor 40 3,3DC I2C
  - Already included with NDC...THS clock version delivery (replaceable item)
- 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

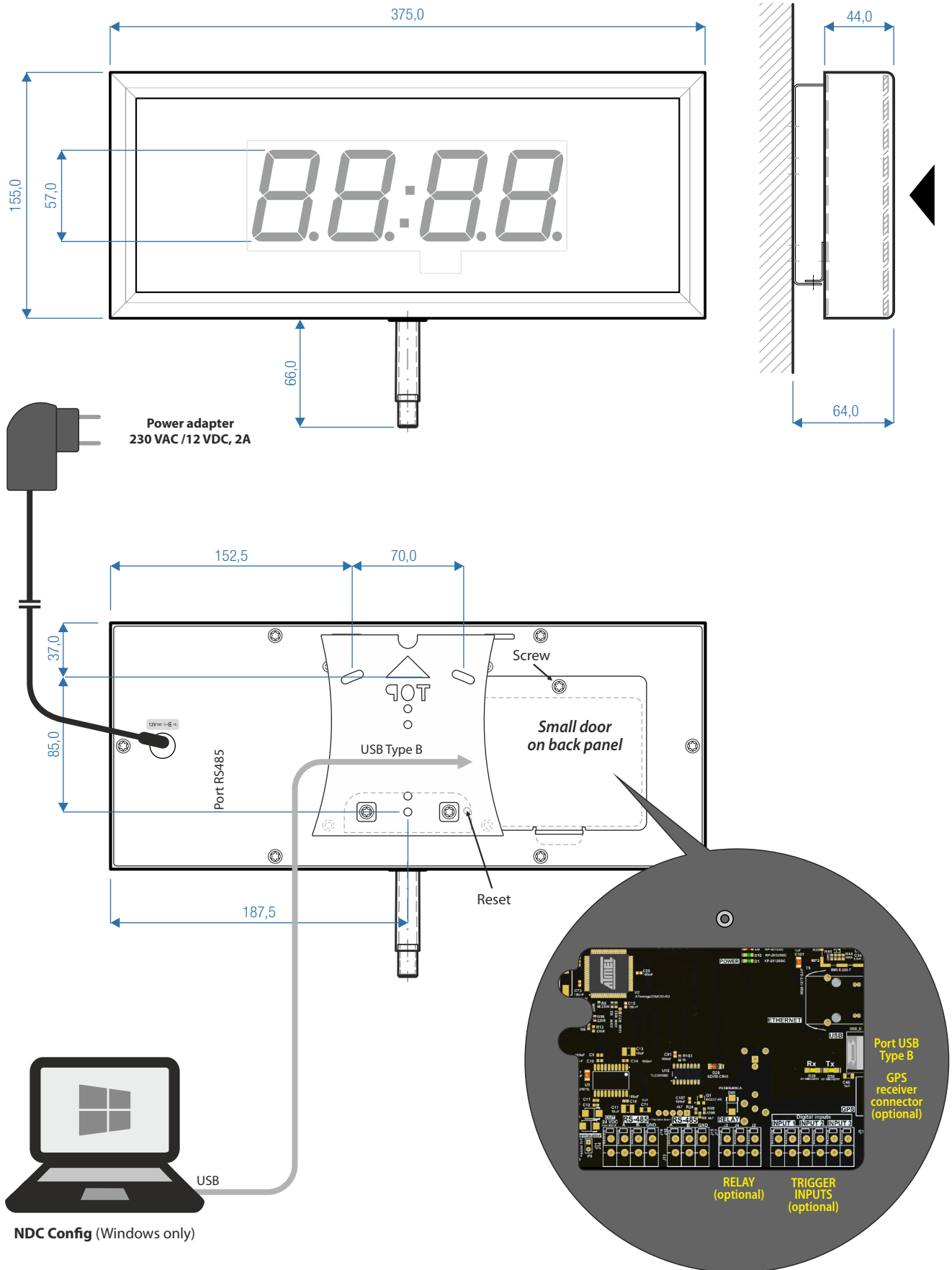
## Clock Specifications

<b>Number of characters</b>	4
<b>Height of characters</b>	57 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 23 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 USB type B, for PC connection (for setting clock parameters or data logging) 1x IR, for remote control (used for setting clock parameters or data logging)
<b>Power supply</b>	Power adapter 230 VAC /12 VDC, 2A (included)
<b>Power consumption</b>	9 W max.
<b>Dimensions</b>	375 mm x 155 mm x 64 mm
<b>Weight</b>	1,8 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 NDC_config - used for setting clock configuration parameters

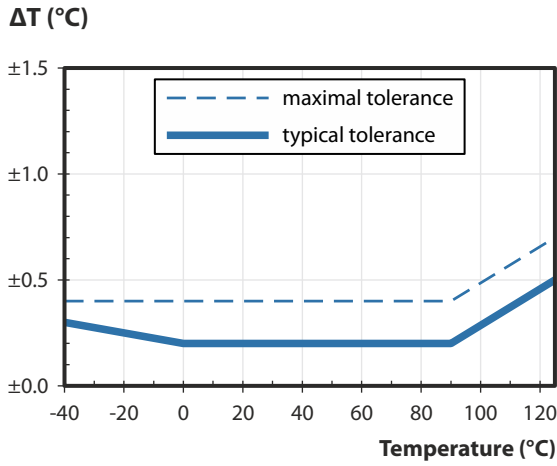
## Sensor Specifications (clock version NDC...THS, plug-in sensor included)

<b>Temperature measuring range</b>	-35°C ~ +70°C
<b>Temperature accuracy</b>	±0,3°C typical, see graph No. 1 on page 2
<b>Humidity measuring range</b>	0% ~ 99%
<b>Humidity accuracy</b>	±2% RH typical, see graph No. 2 on page 2
<b>Sensor type</b>	SHT31 ( Sensirion AG, Switzerland )
<b>Communication interface</b>	I2C, connector jack 3,5 mm on sensor probe - detachable from clock frame

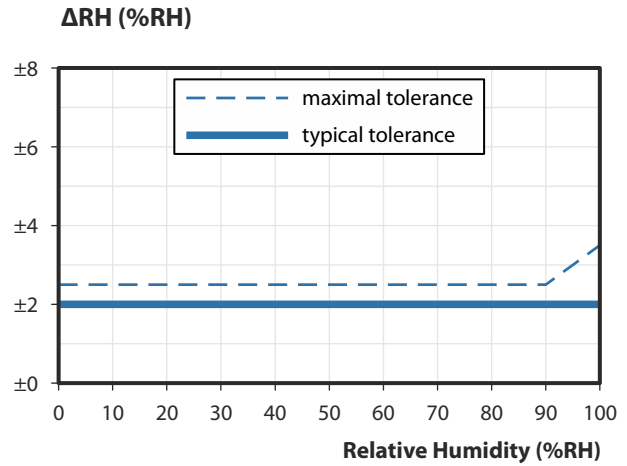
### Dimensional drawing



**Graphs - Temperature and Relative Humidity** (Sensirion SHT31 parameters)

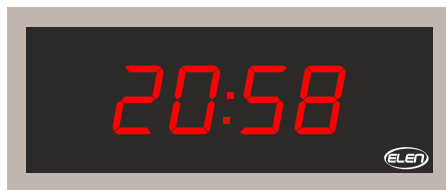


**Graph No. 1:** Accuracy of temperature in °C.

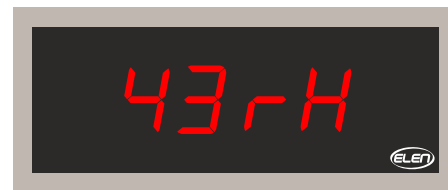


**Graph No. 2:** Accuracy of relative humidity at 25°C.

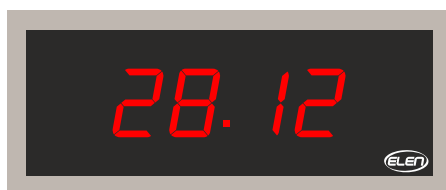
**View options**



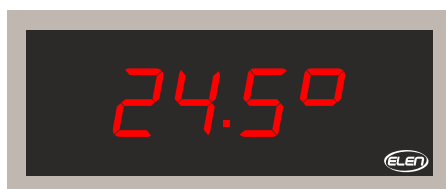
Time



Relative Humidity



Date



Temperature

