

## DIGITAL INDOOR CLOCK

# ECO-SLH-DC

*The ECO-SLH-DC is optimally suited for use in operating rooms, clean room environments, chemical plants, labs, swimming and fitness centres, as well as in the food and beverage industry, canteen, kitchens, etc.*



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# FEATURES

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## DISPLAY

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- continuous display of time, date, temperature or stopwatch
- alternating display of time, date, calendar week, temperature, humidity, and atmospheric pressure, with customizable intervals from 0-60 seconds for each display
- manual or sensor-controlled automatic display brightness adjustment
- wide viewing angle (160°)

### Time

- 12/24 hour cycle
- with or without leading zero
- AM/PM indication for 12 hour cycle

### Date

- with or without leading zero

### Temperature

- in °C or °F

## HOUSING

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- clock frame made of stainless steel (AISI 304, brushed)
- anti-reflection front cover made of polycarbonate, including a filter layer for optimal readability
- single-sided flush mounting
- back cover on request

## STOPWATCH

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- counting up from zero, up to 24 hours
- counting down from a predefined time value, with stop at zero, automatic restart from predefined time or counting into negative values
- display of intermediate time values, display "freeze"
- counting in steps of 1 day, 1 minute, 1 second or 1/100 seconds
- possibility to connect another display unit
- possibility of parallel switching over into the time and date or temperature display mode

## CONFIGURATION

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- setting of the clock parameters, as well as time, date, and stopwatch control by means of IR remote controller; stopwatch can additionally be controlled via big red button

## SYNCHRONIZATION

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- autonomous operation with internal quartz base
- accuracy  $\pm 0.1$  s/day at constant temperature – software trimming
- possibility to configure any time zone
- NTP multicast or unicast synchronization, powered over Ethernet (PoE) or mains
- MOBATIME serial code, MOBALine, impulse line, DCF or IRIG-B, mains powered
- RTC backup by means of supercapacitor (lithium battery on request)

## NETWORK

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- IPv4 and IPv6 support
- DHCPv4, DHCPv6 / manual configuration of the clock parameters or configuration via web interface
- DHCPv4, DHCPv6 private strings allow easy configuration of clock parameters when connected to LAN

# ORDER KEY

## 1 FORMAT

| Digit height    | 10:08  | 10:08 <sup>25</sup> | 10:08:25 | Reading distance |
|-----------------|--------|---------------------|----------|------------------|
| 57 mm           | 57.4   | 57.6                | 57x.6    | 25–30 m          |
| 57 mm two lines | 57.4.2 | 57.6.2              | 57x.6.2  | 25–30 m          |
| 100 mm          | 100.4  | 100.6               | 100x.6   | 40–60 m          |

## 2 DISPLAY COLOR

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| <b>R</b><br>red                                                                   | <b>A</b><br>yellow                                                                | <b>G</b><br>green                                                                 | <b>PG</b><br>pure green                                                           | <b>B</b><br>blue                                                                  | <b>W</b><br>white                                                                 |

## 3 SYNCHRONIZATION

| CODE         | SYNCHRONIZATION                                       | POWER SUPPLY |
|--------------|-------------------------------------------------------|--------------|
| <b>NTP</b>   | NTP                                                   | Mains        |
| <b>PoE</b>   | NTP                                                   | PoE          |
| <b>WiFi</b>  | WiFi (2.4 GHz), NTP                                   | Mains        |
| <b>WiFi5</b> | WiFi (2.4/5.0 GHz), NTP                               | Mains        |
| <b>LGC</b>   | MOBALine / DCF / IRIG-B / (un)polarized 24 VDC pulses | Mains        |

## 4 OPTIONS

| CODE          | OPTION                                               |
|---------------|------------------------------------------------------|
| <b>RS485</b>  | RS-485 interface                                     |
| <b>VDC</b>    | Power supply via 18–56 VDC                           |
| <b>BAT</b>    | Lithium battery                                      |
| <b>REL</b>    | Internal relay                                       |
| <b>REL-IP</b> | Internal relay with firmware for switching functions |
| <b>RP</b>     | Redundant power supply (PoE + 24 VDC)                |
| <b>SL</b>     | SMD diode display                                    |

## 5 ACCESSORIES

| CODE             | OPTION                                                                       |
|------------------|------------------------------------------------------------------------------|
| <b>IR</b>        | infrared remote control                                                      |
| <b>AD 650</b>    | DCF77 radio signal receiver                                                  |
| <b>GNSS 4500</b> | GNSS receiver including antenna                                              |
| <b>SK</b>        | keyboard for stopwatch control, 5m cable                                     |
| <b>SKH</b>       | stainless steel keyboard for clock and stopwatch control, 5m cable, handheld |
| <b>SKF</b>       | stainless steel keyboard for clock and stopwatch control, flush mounting     |
| <b>SKW</b>       | stainless steel keyboard for clock and stopwatch control, wall mounting      |
| <b>TP 3m</b>     | temperature sensor, IP 66, 3m cable                                          |
| <b>TP 30m</b>    | temperature sensor, IP 66, 30m cable                                         |
| <b>TPH 1m</b>    | temperature and humidity sensor, IP 66, 1m cable                             |
| <b>BRB10</b>     | big red button for stopwatch control                                         |
| <b>CB</b>        | Code Blue signal receiver, AC/DC input range 7–350 V                         |

## ORDER CODE

**1**      **2**      **3**      **4**      **5**  
**ECO-SLH-DC** .  .  .N.F.  .  .

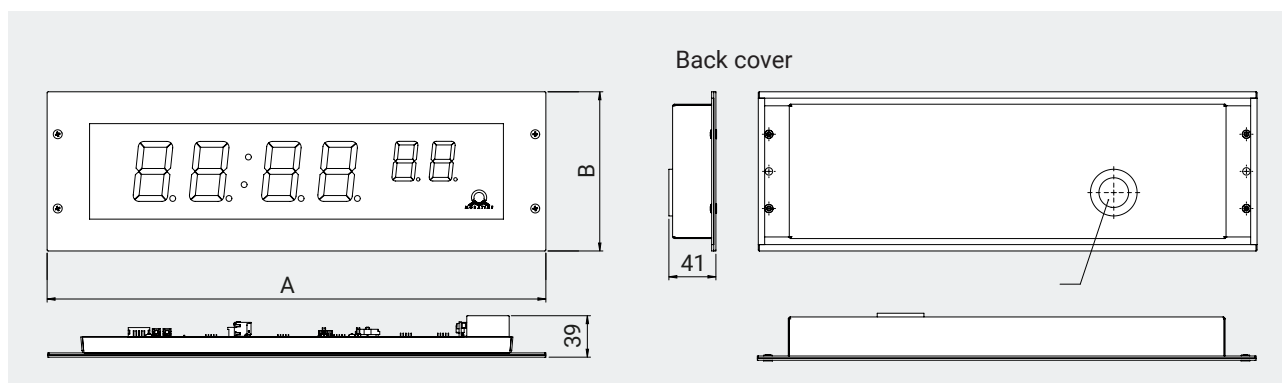
Example: ECO-SLH-DC.100x.6.R.N.F.NTP.SL

# TECHNICAL DATA

| ECO-SLH-DC                                      |                    | 57.4                                                                                                                                                                                                                                                                                                                                                                                                            | 57.6        | 57x.6         | 100.4 | 100.6  | 100x.6 |
|-------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-------|--------|--------|
| Digit height (mm)                               |                    | 57                                                                                                                                                                                                                                                                                                                                                                                                              | 57/38       | 57            | 100   | 100/57 | 100    |
| Display features                                |                    | Time display in 12-hour or 24-hour format<br>Alternating display of time, date and temperature <sup>1</sup> (in °C or °F), air pressure <sup>1</sup> and humidity <sup>1</sup><br>Automatic or manual display brightness adjustment<br>Stopwatch (count up to 24 hours, countdown from set value, display of time intervals, freezing of display...)<br>Stopwatch operation via push buttons, IR remote control |             |               |       |        |        |
| Material                                        |                    | Housing: stainless steel V2A<br>Cover glass: anti-reflective polycarbonate                                                                                                                                                                                                                                                                                                                                      |             |               |       |        |        |
| Power supply                                    |                    | Standard: 100 – 240 VAC, 50 – 60 Hz<br>VDC (option, not for PoE version): 24 VDC<br>PoE version: PoE (IEEE 802.3af class 0)                                                                                                                                                                                                                                                                                     |             |               |       |        |        |
| Power consumption (VA)                          | Mains              | 7 (2L: 11)                                                                                                                                                                                                                                                                                                                                                                                                      | 8 (2L: 16)  | 8 (2L: 16)    | 7     | 8      | 10     |
|                                                 | PoE                | 7 (2L: 11)                                                                                                                                                                                                                                                                                                                                                                                                      | 8 (2L: 15)  | 8 (2L: 15)    | 7     | 8      | 10     |
| Quartz accuracy at 20 °C                        |                    | ± 0.1 seconds/day without synchronization (after 24 hours of synchronization at constant temperature)                                                                                                                                                                                                                                                                                                           |             |               |       |        |        |
| RTC backup/<br>quartz-based<br>time maintenance | Mains power supply | from lithium battery: > 2 years (without power supply) / > 6 years (with power supply)                                                                                                                                                                                                                                                                                                                          |             |               |       |        |        |
|                                                 | PoE power supply   | no time maintenance                                                                                                                                                                                                                                                                                                                                                                                             |             |               |       |        |        |
| Temperature precision                           |                    | -25 to +85 °C: ±0.5 °C, -50 to +125 °C: ±2.0 °C                                                                                                                                                                                                                                                                                                                                                                 |             |               |       |        |        |
| Operating conditions                            |                    | -5 to +55 °C (0 to 95% relative humidity, non-condensing)                                                                                                                                                                                                                                                                                                                                                       |             |               |       |        |        |
| Degree of protection                            |                    | IP 54                                                                                                                                                                                                                                                                                                                                                                                                           |             |               |       |        |        |
| Standards                                       |                    | 2002/96/EC / 2011/65/EU / 2014/30/EU / 2014/35/EU / EN 50121-4 / EN 55022 / EN 55024 / EN 60950-1                                                                                                                                                                                                                                                                                                               |             |               |       |        |        |
| Weight (kg)                                     |                    | 2.6 (2L: 4)                                                                                                                                                                                                                                                                                                                                                                                                     | 3.3 (2L: 5) | 3.5 (2L: 5.5) | 4.7   | 5.8    | 6.5    |
| Dimensions<br>(in mm, see<br>below)             | A                  | 380                                                                                                                                                                                                                                                                                                                                                                                                             | 470         | 500           | 555   | 695    | 770    |
|                                                 | B                  | 150 (2L: 260)                                                                                                                                                                                                                                                                                                                                                                                                   |             |               | 220   |        |        |

2L = two lines

<sup>1</sup> only with external temperature sensor



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