



## Time setting

The professional LEDICA® clocks can display the same time information, synchronized by a master clock or a time server.  
On standalone and pulse version, the time setting is manual.  
Display date and time alternately.

## Internal time base

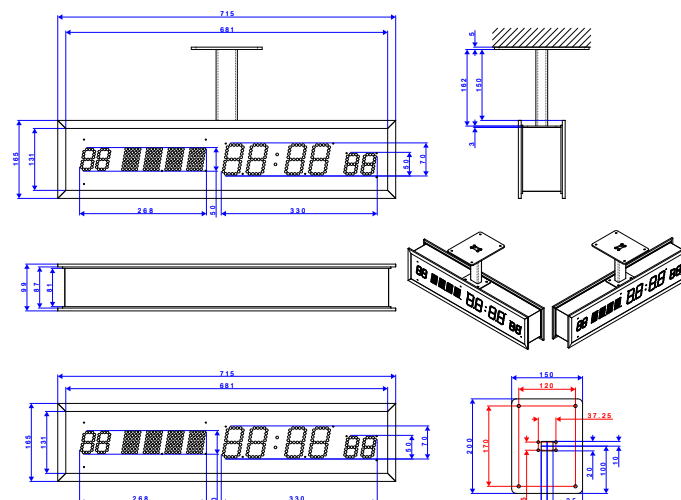
The LEDICA® clock has its own temperature compensated TCXO time base which allows an accuracy about **0.1 sec / day** between 0° to 40°C in case of synchronization loss.

## Security

Backup of time information in case of mains absence, by lithium battery: 10 years.

## Specifications

|                                            |                                                                                                           |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Power supply</b>                        | 230VAC 50/60Hz - 115VAC 50/60Hz<br>Low voltage 12, 24 or 48 VDC<br>NTP Version: PoE (Power over Ethernet) |
| <b>Certifications</b>                      | CE, EN 62368, EN 55032, EN 55035, ROHS                                                                    |
| <b>Maximum consumption</b>                 | 16,40 VA                                                                                                  |
| <b>IP</b>                                  | 30                                                                                                        |
| <b>MTBF</b>                                | 46 267 h.                                                                                                 |
| <b>MTTR</b>                                | Display: 5 min - CPU: 5 min<br>Power supply: 5 min                                                        |
| <b>Weight</b>                              | 2.3 – 2.7 kg                                                                                              |
| <b>Dimensions</b>                          | 625x165x99 mm (LxHxD)<br>Mounting bracket: 150 mm                                                         |
| <b>Digit height</b>                        | Hour/minute: 70 mm<br>Date: 50 mm (Alphanumeric display for day and month)                                |
| <b>Maximal distance of legibility</b>      | 35 meters                                                                                                 |
| <b>Operating temperature</b>               | -20° to 50°C                                                                                              |
| <b>Electrical equipment classification</b> | Classe 2                                                                                                  |



# LEDICA® REVERSO 7.M.S

Indoor / Double face

*Professional LED clock with tri-color display,  
robust and stylish combining the best of the technology  
for an easy installation and operation.*

## Key features

- Pre-programmed calendar available in 11 languages
- Perfectly silent, direct and accurate reading of time
- SMD bi-colour LED technology allows to change the display colour in red, green or yellow (optional white or blue)
- The patented technology of the light guide provides a perfect regularity of the brightness and viewing angle at 160°
- The front face of the LEDICA® is coated with an antiglare and anti-scratch film giving an extraordinary 60000:1 level of contrast
- A protection against over-voltage and industrial interference via EMC filter
- An easy "plug and play" installation
- An anodized aluminium case: double face IP30 on bracket.
- Its participation in the sustainable development, life span over 20 years
- 2 years warranty
- Up to 10 brightness levels for optimal viewing
- Remote and batch configuration via the optional "remote configuration" software
- Selection of colours (independently between wave and numbers) and brightness
- Behaviour of central dots (fixed, blinking...)

## NTP Version

### Advanced version (option K)

- Synchronisation of up to 4 NTPv4 servers and setting of advanced NTP options (poll rate / burst / preference order)
- Time zone selection and automatic summer/winter time change
- Supervision by SNMP v1, V2c, v3, SYSLOG, Consultation of event logs
- Configurations accessible via http and/or https
- Possibility of changing the display colour according to events (e.g. a loss of synchronisation changes the display colour to red)
- IPv4 / IPv6 protocoles
- 12h or 24h mode
- Stopwatch/timer: advanced options fully configurable and programmable (start time, end time, colour change...), control and configuration via web page, GTCHRONO or SNMP
- Sensor\*: Option to manage up to 3 different SNMP sensors (Temperature, Hygrometry, ...)

\*Within the limits of the display

### Standard Version (option N or W)

- Synchronisation of up to 3 NTP servers
- Time zone selection and automatic summer/winter time change
- Supervision by SNMP v1, v2.c
- Configurations accessible via http and/or https
- IPv4 / IPv6 protocoles
- Stopwatch/timer: simple option (triggering of a count sequence or countdown by button via web page or SNMP)
- Sensor: option to manage an SNMP Temperature or Humidity sensor

## Synchronisation Input

- TCXO Quartz Standalone
- DCF77 (EUROPE) with antenna or DCF24V with pair cable
- GPS
- Reverse parallel minute receiver 24V or 1/2 reverse minute series
- AFNOR NFS 87500 or IIRIG B (to specify at purchase order)
- ASCII RS232, ASCII RS422/485
- Standard NTP (Option N) or advanced NTP (Option K) Ethernet 10/100BaseT
- Standard NTP Wi-Fi (IEEE 802.11 a/b/g/n standards 2.4 Ghz)
- SMPTE

**LEDICA® REVERSO 7.M.S****Indoor / Double face**

|                                                                                                                             |                          | CODE ARTICLE |   |   |   |    |   |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|---|---|---|----|---|
|                                                                                                                             |                          | ND304        | / |   |   |    |   |
|                                                                                                                             |                          | ↑            | ↑ | ↑ | ↑ | ↑  | ↑ |
| <b>VERSION</b>                                                                                                              |                          |              |   |   |   |    |   |
| Standalone: radio-synchronisable quartz time base 3.6864 MHz<br>Holdover +/- 0.1 sec/24 h (between 0 and 40°C)              | <input type="checkbox"/> | 2            |   |   |   |    |   |
| DCF Radiosynchronisation. DCF Antenna + 4m cable                                                                            | <input type="checkbox"/> | D            |   |   |   |    |   |
| <sup>(1)</sup> DCF 24Vdc Synchronisation ( <i>Synchro in telecom pair cable</i> )                                           | <input type="checkbox"/> | P            |   |   |   |    |   |
| GPS Radiosynchronisation. GPS Antenna + 10m cable                                                                           | <input type="checkbox"/> | G            |   |   |   |    |   |
| 6mA/24V reversed parallel minute pulses receiver clock                                                                      | <input type="checkbox"/> | 3            |   |   |   |    |   |
| Serial reversed 1/2 minute pulses receiver clock<br>Consumption 1.25V. 60 to 120mA. 39 ohms shunt                           | <input type="checkbox"/> | 5            |   |   |   |    |   |
| <sup>(2)</sup> AFNOR NFS 87500 Receiver                                                                                     | <input type="checkbox"/> | 8            |   |   |   |    |   |
| SMPTE-EBU Receiver                                                                                                          | <input type="checkbox"/> | 7            |   |   |   |    |   |
| ASCII RS 232 Receiver                                                                                                       | <input type="checkbox"/> | B            |   |   |   |    |   |
| ASCII 422/485 Receiver                                                                                                      | <input type="checkbox"/> | Q            |   |   |   |    |   |
| ADVANCED NTP Synchronisation (Ethernet RJ45 10/100)                                                                         | <input type="checkbox"/> | K            |   |   |   |    |   |
| STANDARD NTP Synchronisation (Ethernet RJ45 10/100)                                                                         | <input type="checkbox"/> | N            |   |   |   |    |   |
| STANDARD NTP Synchronisation (Wi-Fi IEEE 802.11 a/b/g/n standard 2.4 Ghz)                                                   | <input type="checkbox"/> | W            |   |   |   |    |   |
|                                                                                                                             |                          |              |   |   |   |    |   |
| <b>PROGRAMMABLE LED</b>                                                                                                     |                          |              |   |   |   |    |   |
| Selectable colour, red, yellow, green                                                                                       | <input type="checkbox"/> | 1            |   |   |   |    |   |
| Selectable colour white or blue                                                                                             | <input type="checkbox"/> | 5            |   |   |   |    |   |
|                                                                                                                             |                          |              |   |   |   |    |   |
| <b>FIXATION</b>                                                                                                             |                          |              |   |   |   |    |   |
| Please refer to the brackets technical sheet                                                                                | <input type="checkbox"/> |              | P |   |   |    |   |
|                                                                                                                             |                          |              |   |   |   |    |   |
| <b>CASE COLOR</b>                                                                                                           |                          |              |   |   |   |    |   |
| Anodized grey aluminium                                                                                                     | <input type="checkbox"/> |              | 7 |   |   |    |   |
| Painted black RAL9005 Aluminium                                                                                             | <input type="checkbox"/> |              | 0 |   |   |    |   |
| Specific                                                                                                                    | <input type="checkbox"/> |              | X |   |   |    |   |
|                                                                                                                             |                          |              |   |   |   |    |   |
| <b>POWER SUPPLY</b>                                                                                                         |                          |              |   |   |   |    |   |
| Standard: 230VAC 50/60Hz                                                                                                    | <input type="checkbox"/> |              | 0 |   |   |    |   |
| 115VAC 50/60Hz ( <i>Excluding version P</i> )                                                                               | <input type="checkbox"/> |              | 1 |   |   |    |   |
| Power over Ethernet (PoE - IEEE802.3af) ( <i>version N or K</i> )                                                           | <input type="checkbox"/> |              | 7 |   |   |    |   |
| Excluding version Low voltage power supply: 12 VDC ( <i>Excluding versions K, N or W</i> )                                  | <input type="checkbox"/> |              | 2 |   |   |    |   |
| Low voltage power supply: 24 VDC ( <i>Excluding versions K, N or W</i> )                                                    | <input type="checkbox"/> |              | 4 |   |   |    |   |
| Low voltage power supply: 48 VDC ( <i>Excluding versions K, N or W</i> )                                                    | <input type="checkbox"/> |              | 6 |   |   |    |   |
|                                                                                                                             |                          |              |   |   |   |    |   |
| <b>OPTIONS</b>                                                                                                              |                          |              |   |   |   |    |   |
| <sup>(4)</sup> Timer function via web interface ( <i>versions K, N or W</i> )                                               | <input type="checkbox"/> |              |   |   |   | F  |   |
| <sup>(3)</sup> Timer: touch housing control block ( <i>flush and wall mount version</i> )<br>+ 4 meters of cable - up/down  | <input type="checkbox"/> |              |   |   |   | I  |   |
| <sup>(3)</sup> Timer: touch housing control block ( <i>flush and wall mount version</i> )<br>+ 4 meters of cable - up/down  | <input type="checkbox"/> |              |   |   |   | I2 |   |
| <sup>(3)</sup> Timer: touch housing control block ( <i>flush and wall mount version</i> )<br>+ 15 meters of cable - up/down | <input type="checkbox"/> |              |   |   |   | C  |   |
| <sup>(3)</sup> Temperature probe (accuracy ± 0.5°C)<br>+ 5 m cable: temperature and hour displayed alternately              | <input type="checkbox"/> |              |   |   |   | T  |   |
| <sup>(5)</sup> IP Temperature sensor module ( <i>versions K, N or W</i> )                                                   | <input type="checkbox"/> |              |   |   |   | G  |   |
| <sup>(3)</sup> Timer output or stopwatch contact                                                                            | <input type="checkbox"/> |              |   |   |   | E  |   |
| <sup>(3)</sup> ASCII RS232 output ( <i>not to be combined with ASCII input version</i> )                                    | <input type="checkbox"/> |              |   |   |   | A  |   |
| or:                                                                                                                         | <input type="checkbox"/> |              |   |   |   | R  |   |
| <sup>(3)</sup> ASCII RS422-485 output ( <i>not to be combined with ASCII input version</i> )                                | <input type="checkbox"/> |              |   |   |   |    |   |
| Tropicalization                                                                                                             | <input type="checkbox"/> |              |   |   |   | U  |   |

<sup>(3)</sup> Option NOT available in NTP versions (N, K: Ethernet or W: Wi-Fi)<sup>(4)</sup> Option NOT available in NTP versions (N, K: Ethernet or W: Wi-Fi)<sup>(5)</sup> Option for NTP versions (Ethernet or Wi-Fi) only, and compatible with a Temperature Sensor via IP station to be ordered separately, see module 92261<sup>(6)</sup> Option available in NTP versions (N: Ethernet or W: Wi-Fi)