



## Time setting

The professional LEDI® 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 LEDI® 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 Low voltage 12, 24 or 48 VDC Version NTP : PoE (Power over Ethernet)
<b>Certifications</b>	CE, EN 62368, EN 55032, EN 55035, ROHS
<b>Maximum consumption</b>	16.54 VA
<b>IP</b>	30
<b>MTBF</b>	46 267 h
<b>MTTR</b>	Display: 5 min - CPU : 5 min Power supply : 5 min
<b>Weight</b>	2,2 – 2,6kg
<b>Dimensions</b>	500x210x99 mm (LxHxD) Mounting bracket: 150 mm
<b>Digit height</b>	Hour/minute: 110 mm
<b>Maximal distance of legibility</b>	Up to 60 meters
<b>Operating temperature</b>	-20° to 50°C
<b>Electrical equipment classification</b>	⚡ Class 1 (in 115 ou 230 VAC) ⚡ Class 3 (in 12, 24, 48 VDC or PoE)

## Key features

- **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 LEDI®** 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 protocols
- 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, ...)

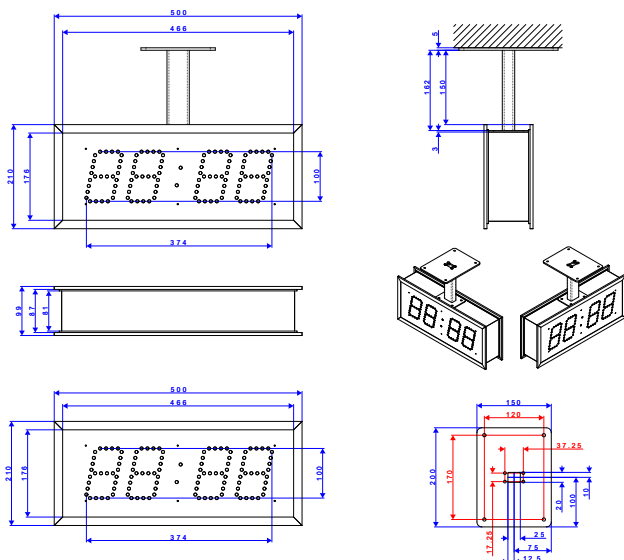
\*Within the limits of the display

### 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 protocols
- 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 IRIG 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



## LEDI® REVERSO 10

		ITEM CODE							
		ND390	/						
VERSION		↑	↑	↑	↑	↑	↑		
Standalone: radio-synchronisable quartz time base 3.6864 MHz 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		<input type="checkbox"/>							
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						
<sup>(1)</sup> Always combine this version with 230VAC 50/60Hz power supply only									
<sup>(2)</sup> If IRIG.B. version, please specify as a note on your order									
PROGRAMMABLE LED									
Selectable colour, red, yellow, green		<input type="checkbox"/>	1						
Selectable colour white or blue		<input type="checkbox"/>	5						
MOUNTING									
Please refer to the brackets technical sheet		<input type="checkbox"/>			P				
COULOUR CASING									
Anodized grey aluminium		<input type="checkbox"/>				7			
Painted black RAL9005 Aluminium		<input type="checkbox"/>				0			
Power supply									
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			
OPTIONS									
<sup>(5)</sup> Timer function via web interface ( <i>versions K, N or W</i> )		<input type="checkbox"/>						F	
<sup>(3)</sup> Touchscreen stopwatch casing, removable, built-in, counting/down, between axes 122 mm + 4 m of cable		<input type="checkbox"/>						I	
<sup>(6)</sup> Touchscreen stopwatch casing, removable, built-in, counting/down, between axes 122 mm + 4 m of cable		<input type="checkbox"/>						I2	
<sup>(3)</sup> Touchscreen stopwatch casing, removable, built-in, counting/down, between axes 122 mm + 15 m of cable		<input type="checkbox"/>						C	
<sup>(4)</sup> Temperature probe (accuracy ± 0.5°C) + 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"/>						U	
Tropicalization		<input type="checkbox"/>							

<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)