LEDI® 12.S
Waterproof

Professional LED clock, robust and stylish combining the best of the technology for an easy installation and operation.

Recommended use under cover

2 YEARS WARRANTY

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.

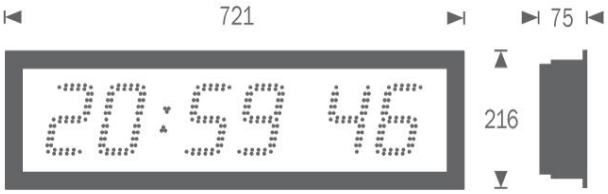
Specifications

Power supply (following version)	230VAC 50/60Hz 115VAC 50/60Hz Version NTP : PoE (Power over Ethernet)
Certifications	CE, EN 62368, EN 55032, EN 55035, ROHS, IEC 60950-22:2016 (2nd Edition)
Maximum consumption	15.04 VA
IP	65 front face / 54 rear face
MTBF	56 225 h
MTTR	Display: 5 min CPU: 5 min Power supply: 5 min
Weight	2.8 kg
Dimension	721x216x75 mm (LxHxD)
Digit height	Hour/minute: 110 mm Seconds: 110 mm
Maximal distance of legibility	Up to 60 meters
Operating temperature	-20° to +60°C
Hygrometry	95% to 40°C
Electrical equipment classification	Class 1 (in 115 or 230 VAC) Class 3 (in PoE)

Storage conditions

Conditions	Temperature	Hygrometry	Maximum cumulative duration
Extreme	-20°C to 10°C	10 to 85% HR	48h
Extreme	40°C to 70°C	10 to 85% HR	48h
Normal	10°C to 40°C	10 to 85% HR	6 months

The product must be switched on for 4 hours every 3 months to maintain its characteristics.*
*see user guide for more information



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
- **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** wall mount or bracket
- **Securit glass 4mm** in front face
- **Tropicalized**
- **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 Mmode
- 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

Display / LED characteristics

Single row LED display, SMD technology, reading angle: 160°

bi-colour (red, green) LED	
● Red: 245 mcd	●Yellow
● Green: 780 mcd	

Synchronisation inputs

- 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)

Fabriqué en France

Réf : BDR_UK2-8_LEDI-and-multizone-clocks-V7.0-priceless

LEDI® 12.S Waterproof

		ITEM CODE									
		ND396E /									
FACE		↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
Single face		1									
Double face		2									
VERSION											
Standalone: radio-synchronisable quartz time base 3.6864 MHz Holdover +/- 0.1 sec/24 h (between 0 and 40°C)	▣		2								
DCF Radiosynchronisation. DCF Antenna + 4m cable	▣		D								
[1]DCF 24Vdc Synchronisation *(Synchro in telecom pair cable)*	▣		P								
GPS Radiosynchronisation. GPS Antenna + 10m cable	▣		G								
6mA/24V reversed parallel minute pulses receiver clock	▣		3								
[2]AFNOR NFS 87500 Receiver	▣		8								
ASCII RS 232 Receiver	▣		B								
ASCII 422/485 Receiver	▣		Q								
ADVANCED NTP Synchronisation (**Ethernet** RJ45 10/100)	■		K								
STANDARD NTP Synchronisation (**Ethernet** RJ45 10/100)	▣		N								
STANDARD NTP Synchronisation (**Wi-Fi** IEEE 802.11 a/b/g/n standard 2.4 Ghz)	■		W								

***(1)** Always combine this version with 230VAC 50/60Hz power supply only*
***(2)** If IRIG.B. version, please specify as a note on your order*

PROGRAMMABLE LED											
Selectable colour, red, yellow, green	▣			4							
FRONT FACE											
Securit glass 4mm – IP65 indoor or outdoor	▣				E						
Polymere (PMMA) – IP65 outdoor only	▣				M						
MOUNTING											
(Single face) Standard: Wall mounting with bracket	▣					1					
(Single or double face) Please refer to the brackets technical sheet	▣					P					
COLOUR CASING											
Grey anodised aluminium	▣						7				
POWER SUPPLY											
Standard: 230VAC 50/60Hz	▣							0			
115VAC 50/60Hz *(Excluding version P)*	▣							1			
Power over Ethernet (PoE - IEEE802.3af) 1 cable Single face *(version N or K)*	▣							7			
Power over Ethernet (PoE - IEEE802.3af) 2 cables Double face *(version N or K)*	▣							8			
OPTIONS											
[4]Timer function via web interface *(versions K, N or W)*	▣										F
[3]Timer: touch housing control block (flush and wall mount version) + 4 meters of cable - up/down	▣										I
[3] Timer : touch housing control block (flush and wall mount version) + 15 meters of cable - up/down	▣										C
[3]Temperature probe(accuracy ± 0.5°C) + 5 m cable : temperature and hour displayed alternately	▣										T
[5]IP Temperature sensor module *(versions K, N or W)*											G
[3]Timer output or stopwatch contact	▣										E
[3]ASCII RS232 output *(not to be combined with Ascii input version)*	▣										A
or: [3]ASCII RS422-485 output *(not to be combined with Ascii input version)*	▣										R

***(3)** Option not available in NTP versions (Ethernet or Wi-Fi)*
***(4)** CDG035 – GT Chrono compatible: Only for NTP Advanced Ethernet version (option K), management of the triggering of groups of clocks simultaneously and synchronised, by Windows software.*
***(5)** 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*