
# LEDI® 5.S
## Indoor / Single face

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

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

**La LEDI® possède sa propre base de temps TCXO** compensée en température offrant une précision de 0,1 sec / jour **entre 0° et 40°C** en cas de perte de synchronisation.

### Security

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

### Specifications

| | |
|---|---|
| **Power supply (following version)** | 230VAC 50/60Hz<br>115VAC 50/60Hz<br>Low voltage 12, 24 or 48 VDC<br>NTP Version: PoE (Power over Ethernet) |
| **Certifications** | CE, EN 62368, EN 55032, EN 55035, ROHS |
| **Maximum consumption** | 13.66 VA |
| **IP** | 30 |
| **MTBF** | 56 225 h |
| **MTTR** | Display: 5 min<br>CPU: 5 min<br>Power supply: 5 min |
| **Weight** | 1.3 kg |
| **Dimension** | 315x145 x62 mm (LxHxD) |
| **Digit height** | Hour/minutes/seconds: 50 mm |
| **Maximal distance of legibility** | 25 meters |
| **Operating temperature** | -20° to 50°C |
| **Electrical equipment classification** | Class 1 (in 115 or 230 VAC)<br>Class 3 (in 12, 24, 48 VDC or 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 (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.
- **An anodized aluminium case** wall mount or flush mount
- **A protection against over-voltage** and industrial interference via EMC filter
- **An easy "plug and play"** installation
- **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 | | Monochrome LED |
|---|---|---|
| ● Red: 245 mcd | ●Yellow | ● Blue: 625 mcd |
| ● Green: 780 mcd | | ○ White: 625 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)
- SMPTE


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

# LEDI® 5.S Indoor / Single face

| | | ITEM CODE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N356 | / | | | | | | | | | |
| **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** | | | | | | | | | |
| Serial reversed 1/2 minute pulses receiver clock Consumption 1.25V. 60 to 120mA. 39 ohms shunt | ■ | | **5** | | | | | | | | | |
| (2)AFNOR NFS 87500 Receiver | ▣ | | **8** | | | | | | | | | |
| SMPTE-EBU Receiver | ■ | | **7** | | | | | | | | | |
| 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 | ▣ | | | | **1** | | | | | | | |
| Selectable colour white or blue | ▣ | | | | **5** | | | | | | | |

| **MOUNTING** | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standard: Wall mounting with bracket | □ | | | | | | **1** | | | | | |
| Flush mounted | ▣ | | | | | | **3** | | | | | |

| **COLOUR CASING** | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Grey anodised aluminium | □ | | | | | | | | **7** | | | |
| Painted black RAL9005 Aluminium | ■ | | | | | | | | **0** | | | |

| **POWER SUPPLY** | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standard: 230VAC 50/60Hz | ▣ | | | | | | | | | **0** | | |
| 115VAC 50/60Hz *(Excluding version P)* | ▣ | | | | | | | | | **1** | | |
| Power over Ethernet (PoE - IEEE802.3af) *(version N or K)* | ▣ | | | | | | | | | **7** | | |
| (3)Low voltage power supply: 12 VDC *(Excluding versions K, N or W)* | ▣ | | | | | | | | | **2** | | |
| (3)Low voltage power supply: 24 VDC *(Excluding versions K, N or W)* | ▣ | | | | | | | | | **4** | | |
| (3)Low voltage power supply: 48 VDC *(Excluding versions K, N or W)* | ▣ | | | | | | | | | **6** | | |

| **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** |
| Tropicalization | ▣ | | | | | | | | | | | **U** |

***(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*