

LED Standard Clocks



FEATURES AND FACILITIES



TIME CLOCK



Automatic brightness sensor



Remote setting by IR Controller or WWW



CALENDAR



Built-in Relay



Built-in power supply



TEMPERATURE



High level of protection (IP67)



Readable in direct sun



Light weight



Satellite GPS synchronization



Easy to clean



Low Power Consumption



Internet NTP synchronization

Standard Clocks Displays

Electronic Clocks, Calendars & Thermometers

This standard range of **LED electronic Clocks** will also show the **date** and the **temperature** (with a temperature sensor). There is also an option for GPS time synchronisation.

The Clocks have three available digit heights: **5cm**, **10cm** and **20cm** LED digits

They can be used **internally** and **externally**, in reception areas, lobbies, offices, schools, hospitals, site entrances, railway stations, outdoor sports facilities etc. The device has a high specification **IP 67** rating.

They can also be integrated within part of other LED screen installations.

MODELS



Model 1 Ref: A5-R

5cm high LED digits
Hours and Minutes
Remote



Model 2 Ref: B5-R

5cm high LED digits
Hours, Minutes and Seconds
Remote



Model 3 Ref: A10-R / A10-L

10cm high LED digits
Hours and Minutes
Remote or LAN / www



Model 4 Ref: B10-R / B10-L

10cm high LED digits
Hours, Minutes and Seconds
Remote or LAN / www



Model 5 Ref: A20-R / A20-L

20cm high LED digits
Hours and Minutes
Remote or LAN / www



Model 6 Ref: B20-R / B20-L

20cm high LED digits
Hours, Minutes and Seconds
Remote or LAN / www

Available LED colours: ● ● ● ● ●

Note: ZA5 and ZB5 in red only

Standard Clocks Displays

Configuration Options

Available Configuration Options		
Function	version –R (IR controller)	version –L (LAN / WWW)
Setting time/date	YES	YES
Turning on/off time/date/temperature presentation	YES	YES
Changing the duration of time/date/temperature presentation	YES	YES
Changing date presentation format	YES	YES
Setting the local time zone	YES	YES
Enable / disable daylight saving time*	YES	YES
Programming of operating hours ECO-MODE	YES	YES
Brightness settings: 10 fixed levels + AUTO	YES	YES
Programming of alarms (relay) - day mode	YES	YES
Programming of alarms (relay) – weekly mode	YES	YES
Clear and tabular view and configuration settings - WEB SITE		YES
Set parameters for time synchronisation from Internet		YES
Functionality SNTP time server (master clock)		YES
Remote, centralised management of multiple clocks in the network		YES

* The automatic change winter to summer time (Daylight Saving Time) according to EU Directive 2000/84/EC. Only available for devices equipped with GPS time synchronization or NTP time synchronization.

EXECUTIVE RELAY

Clocks in this series have a built-in executive relay which can signal a maximum of 30 alarms. Duration of the alarm may be set individually – from 1 second up to 59 seconds. Purposes:

- turn on the industrial buzzer - signaling such interruptions and changes in the workplace
- turn on school / college bell
- give a time signal to another device / system

Parameters of built-in executive relay	
Contacts type	NO (Normal Open)
max. current	5 A
max. switched voltage	250 V
max. switched power	1000 W

Standard Clocks Displays

Clock Control

REMOTE CONTROL

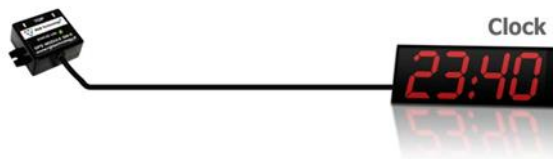
Clocks with the suffix "-R" have a infrared remote control included for remote management of the clock. Each remote control has a unique code, so there is no possibility of unauthorised changes by unauthorised persons. The remote control is assigned to one or more clocks. There is also the ability to assign multiple remotes into one clock.

AUTOMATIC TIME SYNCHRONISATION

For the purposes where the accuracy of the indicated time is critical, the automatic time synchronization is used - available in two options:

Satellite GPS receiver (for model with suffix „-R” or „-L”)

- provide the synchronisation based on GPS satellite signals
- for proper operation the sensor will need to be placed in a position that will give "visibility" to the sky
- built-in LED diode indicating receiving signal



Synchronization via Internet –NTP time servers (only for models with suffix „-L”)

- provide time synchronisation with dedicated NTP servers (free servers available)
- for proper operation a permanent connection with internet is required
- simultaneous support for ten different time servers ensures correct synchronisation of clocks, even in case of losing communication with most servers
- switching between time servers is automatic after detection of inaccuracies in the action or failure.



The local server SNTP - Simple NTP (only for models with the suffix "-L")

MODEL	CONTROL	DIGIT HEIGHT	HEIGHT	WIDTH	DEPTH	WEIGHT	POWER CONS.	
1	A5-R	Remote IR	5cm	14.1cm	29.8cm	4.2cm	0.95 kg	5W
2	B5-R	Remote IR	5cm	14.1cm	40.8cm	4.2cm	1.3 kg	7W
3	A10-R	Remote IR	10 cm	18,5 cm	35 cm	4,5 cm	1,5 kg	10W
	A10-L	LAN, WWW	10 cm	18,5 cm	35 cm	4,5 cm	1,5 kg	10W
4	B10-R	Remote IR	10 cm	18,5 cm	51 cm	4,5 cm	2,0 kg	15W
	B10-L	LAN, WWW	10 cm	18,5 cm	51 cm	4,5 cm	2,0 kg	15W
5	A20-R	Remote IR	20 cm	30 cm	63 cm	4,5 cm	3,0 kg	14W
	A20-L	LAN, WWW	20 cm	30 cm	63 cm	4,5 cm	3,0 kg	14W
6	B20-R	Remote IR	20 cm	30 cm	92 cm	4,5 cm	4,0 kg	20W
	B20-L	LAN, WWW	20 cm	30 cm	92 cm	4,5 cm	4,0 kg	20W

Standard Clocks Displays

Clock Control

REMOTE CONTROL

Any clock can be set as a central clock (clock master) and provide a time source for other clocks in the network as a SNTP server.

The Central clock may acquire time from the GPS receiver, other public NTP server or your internal clock.

Also In the box:

- mounting elements
- IR Remote Control (for models with suffix "-R")
- Built-in Ethernet communications module (for models with the suffix "-L")

Additional options for the LED Clocks	
ADDITIONAL OPTIONS	DESCRIPTION
GPS time synchronisation (GPS)	Current time is set by synchronising the LED clock with the GPS worldwide system. Every set comes with a GPS receiver and weather resistant GPS antenna. Precise time is displayed and the time is automatically switched between Daylight Saving Time and standard time. Length of the cable (look at "cable extension")
Temperature sensor	The display, apart from the standard time and date function, is able to show the temperature as well. The temperature is shown interchangeable with time and date on the LED display. Temperature range: -50°C ÷ +99°C Length of the cable (look at "cable extension")
Water temperature sensor (hermetic)	The display, apart from the standard time and date function, is able to show the temperature as well. The temperature is shown interchangeable with time and date on the LED display. Temperature range: -50°C ÷ +99°C Length of the cable (look at "cable extension")
Cable extension	Standard length of Power cable is 2m. Possibility of extension up to 100m Standard length of temperature cable is 10m. Possibility of extension up to 50m Standard length of GPS cable is 10m. Possibility of extension up to 50m Additional cost applies to the extension of each mt over standard length.
Standard buzzer (acoustic signal)	Industrial acoustic signal with executive relay made from impact resistant synthetic ABS polymer. Mains voltage 230V, acoustic signal volume 88dB.
Buzzer (increased acoustic signal)	Industrial acoustic signal with executive relay made from impact resistant synthetic ABS polymer. Mains voltage 230V, acoustic signal volume 108dB.
Green or blue LEDs	Standard available LED colours are yellow and red. Green and blue colours cost an additional 10% of the cost of a standard clock unit.

about us

As an established leader in the UK for electronic message display signs and with 40 years experience in the business of supplying programmable LED signs and LED displays, you can be sure that we'll give you the right advice and excellent service, these are the values that we hold dear.

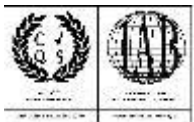
We are a British company and we pride ourselves in our commitment to our customers, product performance and our quality of service. In the past 40 years we have installed in the region of nearly 20,000 LED screens and displays to a broad spectrum of clients. As a LED display LED screen manufacturer we are able to offer a complete bespoke solution from concept to commissioning offering you the most cost effective solution to your needs.

If you'd like to talk to us about how we can help you just call us. There's no obligation and we don't charge for quotations. We can work together to be sure that the LED sign solution we offer you is absolutely the correct solution for your requirements.

For demonstrations and to view our extensive range of LED displays please contact us to arrange a visit to our showroom at our base in Andover, Hampshire. Just call us on 01264 303030.

accreditations

LED Synergy Electronic Displays 40 years experience in the manufacture and supply of electronic displays to many companies and individuals worldwide. We have a wealth of experience and expertise and have been accredited with the following certifications:



ISO9001



WASTE
ELECTRICAL and
ELECTRONIC
EQUIPMENT



RESTRICTION of
HAZARDOUS
SUBSTANCES



EUROPEAN
COMFORMITY



UNDERWRITERS
LABORATORIES



We are also an approved
Highways Agency contractor



- **Simple to operate products with bespoke software**
- **Value for money & satisfaction guaranteed**
- **Superb British manufactured products**
- **Excellent support & customer service**

"This huge sign caused great excitement at the start of the new Millennium, with welcoming messages uploaded from around the world it brought the year 2000 in with a bang!". *Reuters*



We accept most major credit and debit cards

"Thank you for all your help in the installation of the Help Desk Control system. The system has been up and running for over a year, and surpassed the trial findings. We were able to achieve a complete system payback within 6 months."

Tony Lawrence (Technical Support Manager) - Lloyds TSB

"You provided a countdown display in record time, next time we will try and give you more notice! Thank you for your excellent service and support throughout the project."

Dominique Didinal (Marketing Manager) - St Pancras Station

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