



Narranty

OUICK INSTALLATION GUIDE: CLOCK-CALENDAR-THERMONETER-CHRONOMETER

DISPLAY CONFIGURATION

Once the device is powered on, it goes directly to indicate the internal software version and then sequentially the data to be displayed that have been selected (current time HH:MM, date DD-MM and temperature in °C). Fully configurable and controllable via PC and USB cable with the **MP Tools** software (available on our website) and access to the configuration of the main parameters via infrared control (optional). It is possible, from a weekly calendar, to set up to two time slots for switching on and off per day

It is possible as an option to mount, among others, a 1 relay output module with 12 configurable alarms in clock mode and up to 15 presets in chronometer mode, a GPS module for time synchronization, a module for Ethernet TCP/IP or WiFi communication and SNTP synchronization. , etc.

CONFIGURATION AND CONTROL FROM THE IR REMOTE CONTROL:

Menu key: Main key used to access the configuration menu. Register number appears on flashing mode on the left and the character "A" on the right.

Keys "^", "v": To go to the next register or to change the value of the selected register.

<u>Keys</u> "+V", "-V": To increase or decrease the luminosity without entering on configuration menu. <u>Tecla</u> "OK": To validate changes. A new press shows "ST ?" and a following confirms to save the changes made. For the registers related to the clock (1 to 5) and chronometer (47 to 55), the menu is not exited until the configuration sequence of the same has been completed. Register settings are not lost when power is removed from the equipment.

Keys "Exit": To exit the menu without saving the changes. Also to return to clock mode from chornometer mode.

Keys ">>:: Quick access to clock registers. Keys "•": Switches from clock mode to chronometer mode.

Keys "O": Displays alternately with each press 'hour:minutes' or 'minutes:seconds'.

TABLE OF MENU REGISTERS FOR IR REMOTE CONTROL:

REG.	Value	Description	REG.	Value	Description
0	-	Test display	34	-	Shows the software version
1	0 a 99	Set the year	35	1 a 99	DTP address. Device identification number (ID)
2	1 a 12	Set the month	36	-	% of luminosity captured by the sensor
3	1 a 31	Set the day	37	-	% of instantaneous luminosity delivered by the sensor
4	0 a 23	Set the hour	38	-	Shows the internal temperature of the equipment
5	0 a 59	Set the minutes	39	-	Shows outside temperature
6	0 a 99	Brightness level (0:Auto; 1 to 99: Manual)	40	-	Shows the number of synchronized satellites (Only for GPS)
7	1 a 99	Minimum brightness (% of light defined for sensor)	41	-	Maximum temperature value reached inside the equipment
8	1 a 99	Maximum brightness threshold (%) defined for sensor	45	0 / 1	Shows clock-calendar or clock-calendar+chronometer (0=clock-calendar/1=clock-calendar+chronometer)
9	1 a 99	Speed of change of LED brightness according to external light	46	0 a 2	Chronometer work mode. 0=Up; 1=Down; 2=Up with final time
10	0/1	Enable alternative lighting that activates during set hours	47	0 a 23	(default time 1) Preset time 1 (asc./desc. chrono) (hours)
11	1 a 99	Alternative luminosity percentage	48/49	0 a 59	Preset time 1 (up/down chrono) (minutes and seconds)
12	0 a 23	Alternative brightness start time	50	0 a 23	Preset time 2 (down chrono) (hours)
13	0/1	Alternative brightness end time	51/52	0 a 59	Preset time 2 (down chrono) (minutes and seconds)
14	0/1	Shows or not the time in clock-calendar mode ($0=NO/1=YES$)	53	0 a 23	Preset time 3 (down chrono) (hours)
15	0/1	Time format (0=24H/1=12H)	54/55	0 a 59	Preset time 3 (down chrono) (minutes and seconds)
16	0/1	Shows or not the date in clock-calendar mode ($0=NO/1=YES$)	62	0 a 12	Selection of clock alarm number (activate relay 1).
17	0/1	Shows or not the temperature in clock-calendar mode (0=NO/1=YES)	63	0 / 1	Activate selected clock alarm (by default fixed from Monday to Sunday).
19	4 a 99	Time in seconds that the clock-calendar-temp is displayed	64	0 a 23	Define selected clock alarm minutes.
20	0 a 7	0:Random; 1:Immediate; 2:Ascending; 3:Descending; 4:Upward shutter; 5:Lower shutter; 6:Odometer; 7: Progressive brightness (7-segment clock only: 0, 1 and 7)	65	0 a 59	Define selected clock alarm minutes
21	1 a 99	Effect speed (pixels/s) (Only for matrix clocks)	70	1/0	Shows battery level. (1=OK/0=Replace)
23	-12 a +14	Define difference from default time zone (GMT+1)	72	1/0	Device On/Off auto. (0=Disabled 1= Enabled)
24	0/1	Enable/disable automatic time change (0=NO/1=YES	73 a 76	0-23/59	Hour/minute auto power on. Hour/minute auto off.
33	± 9°C	Offset de temperatura. Suma o resta los grados indicados	99	-	Reset to return to factory settings



Chronometer:

Chronometer: To work with the chronometer press the "•" key. To exit press the "**Exit**" key. When chronometer stopped, press the "**O**K" key to start. When chronometer running, press "**O**K" again to pause. When chronometer running, press the "•" key to reset the time to 0 or to a predefined value for down mode. On down mode, press the "•"key tochange between the three predefined times

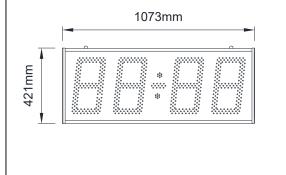
TECHNICAL SPECIFICATIONS

POWER SUPPLY AND FUSES

POWER SUPPLI AND FUSES	
DMR31xP: 88-264V AC 47/63Hz or 120-373V DO	2
Maximum consumption 110VA	١
Recommended fuse T 5A	۱
VISUALIZATION	
Approx. max. reading dist \leq 150m	
LED type Oval	
LED diameterØ5mm	
Digit number 4	
Digit height 310mm	
LED colors available Amber or red	
(consult_for other color)	
Automatic brightness intensity control or by software 0-100%	
Viewing angle 70° horizontal, 35° vertical	
Clock drift < 2min./year	
SNTP sync period 10 minutes	

DIMENSIONS

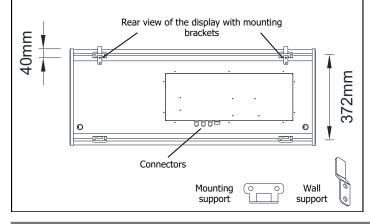




THE ADVANCED CONFIGURATION OF THE PARAMETERS OF THE MO-DULES IS DONE THROUGH THE "**MP Tools**" APPLICATION AVAILABLE ON OUR WEBSITE.

MOUNTING

The displays are supplied by default with the power cable, the remote control for its configuration (option), a mini USB cable, a temperature probe, WiFi/GPS antenna (option). For its installation, fix the brackets on the wall and hang the device





55mm

m

85mm

ENVIRONMENTAL CONDITIONS

ENVIRONMENTAL CONDITIONS
Working temperature
Relative humidity (non condensing) <90% @ 40°C
Protection degree IP65
MATERIALS
FrontRed or smoked methacrylate (depending LED color)
CaseBlack aluminium
Weight 11kg
COMUNICATION
Ports Mini USB (default)
RS232/RS485, Ethernet (10/100)
WiFi (availability depending on radio regulation of the country)
Protocols DTPM, SNTP
Transmission rate 1200 to 115200 Baud (configurable) Remote IR control rangemax 10m (no sun lihgt)
TEMPERATURE PROBE
Accuracy (-15°C \div 60C°) $\leq \pm 1.5$ °C
RELAY OUTPUT
Type and máximum currentSPDT, 8A/250Vac

CONNECTIONS

Connections are already factory wired through 3 cable gland connectors and an USB output on the rear of the display. The connectors are: 1 x Pg7 (Temperature probe) 1 x Pg7 (Ethernet/RS/WiFi/GPS/Relay) 1 x Pg7 (Power supply) 1 x USB A 2.0 connector with IP67 cap USB PORT Temperature probe Ethernet, RS WiFi POWER SUPPLY 88-264V AC 120-373V DC 110VA Recommended fuse: (5A) Isolation: 3000Vrms for 1 minute to input/ output terminals and power terminals CE Conformity. Directives EMC 2014/30/EU LVD 2014/35/EU Standards EN 61326-1 EN 61010-1 WARNING: If this instrument is not installed and used in accordance with this instructions, the protection provided by it against hazards may be impaired. To meet the requirements of EN 61010-1 standard, where the unit is permanently connected to main supply, its is obligatory to install a circuit breaking device easy reachable to the operator and clearly marked as the disconnecting device. **IMPORTANT!** To guarantee electrical safety according to EN 61010-1 a protective external fuse against overcurrents must be installed. According to Directive 2012/19/EU, you cannot dispose of this appliance as normal urban waste. You can return it, free of charge, to the place where it was purchased so that controlled treatment and recycling can be carried out.