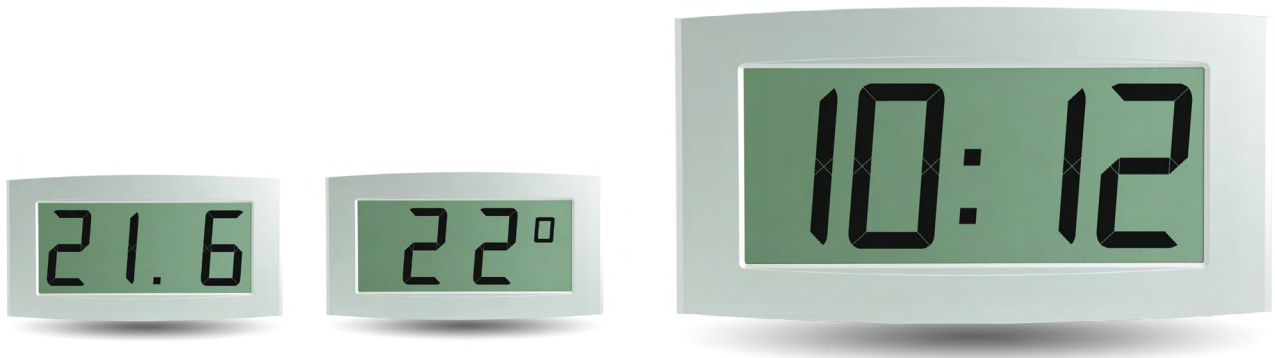swiss made   elektronik ag

Digital clock «Cristalys 14»

For Indoor

Description

- Indoor clock with liquid crystal display (LCD)
- Hour display fixed or alternate with date, temperature, …
- Extra flat casing
- Optimal viewing distance 60 metres, angle of vision 160º
- Integrated temperature sensor
- Casing colour: Silver, white
- Versions: radio synchronised DCF, DHF receiver, impulse slave movement, IRIG B/AFNOR coded time receiver or NTP receiver

Standards

- NF EN 50081-1
- NF EN 50082-1
- NF EN55024
- NF EN60950

General features

Eco function	Providing energy savings through switching off display between 23:00 and 06:00
Operation	Silent
Display mode	12 or 24 h
Temperature display	-40°C to +85°C or -40°F to +185°F. Selection °C or °F in the menu. Display resolution: 1°C. Accuracy: ±0.5°C. Offset adjustment, possible from -9.5°C to +9.5°C in 0.5° steps
Display	Multifunctional
Time change	Pre-programmed automatic summer/winter time changeover and perpetual calendar with multi time zones
Data saving	7 Days
Accuracy of the time quartz base	0.2 second/day (adjustable)
Absolute time accuracy	Radio synchronisation models
Indicator	Low battery
2 Buttons	Programming and time setting
NTP Synchronisation	Unicast, multicast and by DHCP
Antenna of synchronisation	Multidirectional radio antenna to catch the time whatever the clock position is

Mechanical features

Construction	ABS casing, IP40, IK02
Window	Glass
Operating temp. range	0°C to +50°C
Humidity	80 % at 40°C
Weight	2.0 kg

Electrical features

Power supply	- Models: AFNOR coded time receiver, wireless DHF, independent/24 V minute impulse receiver: ELV 24 VDC or 2 piles type LR14 - Model NTP: PoE (Power Over Ethernet)
Consumption	- Models AFNOR, DHF, DCF: 0.2 mA (Class III) - Model AFNOR very low voltage: 10 mA (Class III) - Model NTP: 2.5 W (Class III PoE)

Ordering information

938 623	Radio synchronised DCF
938 131	Slave movement on impulses or AFNOR receiver – Battery
938 132	Slave movement on impulses or AFNOR receiver – TBT (6–24 VDC); power supply as option
938 641	DHF radio receiver
938 643	DHF radio receiver (very low voltage)
938 673	NTP PoE receiver
Accessories:	
202 271	Wall support (supplied with each Cristalys clock)
938 902	Table support
938 901	Double sided bracket for wall or ceiling mounting
938 905	Double sided bracket for wall or ceiling mounting (special length)
938 906	Support for recessed mounting
938 908	Single or double sided bracket specific length for wall or ceiling mounting (Specify the the fixing mode (wall or ceiling) and the length between the top of the clock and the fixing point)
938 907	Support for very low voltage power supply
938 914	Embedded TBT (very low voltage) power supply (Capacity: 20 clocks)
938 916	Wall plug-in TBT power supply (capacity: 20 clocks)

Multifunctional clock
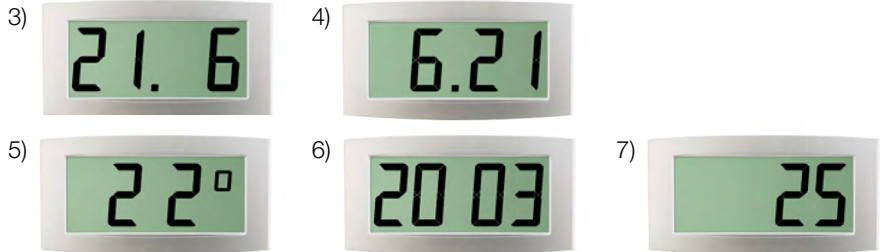
Hour only:
1) 12 h mode
2) 24 h mode

or alternate with:
3) Day-Month (31 : 12)
4) Month-Day (12 : 31)
5) Temperature
6) Year
7) Week number

1) 9:48
2) 21:48
3) 21. 6
4) 6.21
5) 22°
6) 20 03
7) 25

Movements and synchronisation

Quartz movement
The clock is totally independent, the time information comes from its own time basis. Automatic summer / winter time changeover.

DHF movement
The clock is radio-synchronised by a DHF transmitter. Automatic summer / winter time changeover.

DCF radio synchronised movement
The clock is independent, the time information is provided by its own time basis which is corrected, in case of drift, by comparison to the DCF transmitter signal. The radio synchronisation permit to display the time with perfect accuracy. Automatic summer / winter time changeover.

IRIG B/AFNOR coded time receiver
The coded time distribution consist in transmitting a complete time message each second: the setting on time of the receivers is realised automatically and quickly as soon as they are connected to the time distribution line. The IRIG B/AFNOR coded time does not transmit interference and is insensitive to other electrical interference.
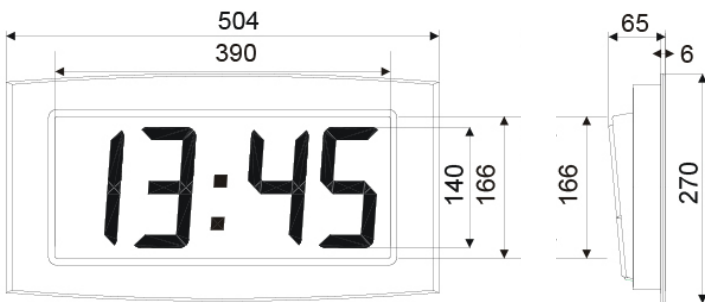
24 V minute impulses receiver movement
The receiver clocks are connected to a distribution line and activated by means of electrical impulses transmitted every minute by the master clock.

NTP PoE receiver
The slave clocks are connected to the network Ethernet through IP addressing. The time synchronization is distributed from primary servers towards the network or master clock with unicast, multicast or by DHCP models. The NTP server must have a transmission (Poll) period of less than 128 seconds.

Dimensions (in mm)

504
390
13:45
140
166
65
6
166
270

Double-sided bracket