

## Time management

TIME DISPLAY SYNCHRONISATION / DISTRIBUTION





## Synchronise every moment

Bodet is a French family company founded in 1868. It has earned a reputation for its expertise in time management, building on its primary activity of tower clock restoration as Bodet Campanaire. Over the years, the company has expanded its time precision know-how to apply it to sports scoreboards, industrial clocks, sound systems, as well as time and attendance management. Thus, alongside Bodet Campanaire, the entities Bodet Sport, Bodet Time and Kelio were founded.

Now managed by the fifth generation of the Bodet family, the company continues to grow both in France and internationally, focussing on innovation to create a range of high-tech products designed and manufactured in France. Bodet's products offer time synchronisation and distribution to many players within the public administration, education, health, industry and transport.

Bodet Time also provides telephone assistance in many languages. Our technical experts help our clients set up the products and perform functional and technical software updates.

## The biggest selection on the market

Information about time is essential to any activity.

Time must not simply be displayed: it must be reliable, precise, and synchronised. And since each organisation is unique, Bodet offers a wide range of clocks that can suit any need:

## Ranges



Time display for all

This classic range includes analogue clocks for indoor and outdoor use with an understated, timeless design.







#### STYLE

Customisable time display

This range of digital LED clocks with a clean, modern style is designed for indoor use.



#### **HMT/HMS LED**

Outdoor time display

These digital LED clocks are robust and designed for outdoor environments and large indoor spaces.



#### **CRISTALYS & OPALYS**

LCD time display

These two ranges of stylish digital clocks are perfect for indoor environments.

### How to choose a clock?

Above all, a clock must display time in an easy-to-read way that is appropriate for its environment. Its display mode, features, and synchronisation mode also need to be considered.













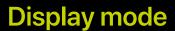
Whether in factories, production workshops, logistics platforms, school environments, healthcare facilities, train stations, or airports, our solutions can meet any need.

#### **Time synchronisation**



Time synchronisation delivers identical time information to a network of clocks located within one or more buildings via a master clock or a time server. The chosen synchronisation mode will depend on the existing technical installation, the number of rooms and the surface area of the buildings on your site.







Several different display modes are available: analogue, LED, and LCD. Some clocks can be customised to display additional information such as seconds, the date, the day of the week, the temperature, or custom text.



#### Reading distance



There is a wide range of clock sizes to suit all kinds of places, such as offices, airport concourses, or train station platforms. To make sure that the time is easy to read, a wide range of digit heights and dial diameters is available.

> A few reference points: Office, classroom: 20 m Entrance hall: 30 m

Train station platform: 80 m Stadium/car park: 150 m



#### The environment



Inside or outside, each clock is designed to fit into its environment. Outside, clocks are subject to different constraints such as extreme temperatures and extreme weather events, impacts, pressure cleaners, and rain.

#### Desian



The clock's style is an important factor to take into account so that it can fit in harmoniously in any establishment. This is why Bodet offers several types of displays, colours, materials, and markings. Not to mention our custom creations. If you want a bespoke creation, contact us.

### Profil 700 **Exceptionally resilient**



The Profil 700 range displays the essentials. The time is easy and quick to read. They are designed to withstand extreme conditions, whether for an indoor (stainless steel) or an outdoor use (aluminium).







Profil 740



Profil 750

Profil 760

Profil 780

#### **Product** advantages

- :• IK08 impact resistant with aluminium casing and tempered glass lens. IK09 as an option with a polycarbonate lens (Profil 750, 760 & 780)
- Withstands heavy tropical rain, IP 54 as standard / IP 65 as an option (*Profil 750, 760 & 780*)
- :• Withstands cleaning products with a stainless steel bezel and a tempered glass lens (Profil 730 & 740)
- **LED lighting** on option (*Profil 740, 750, 760 & 780*)

#### **Characteristics**

#### **Synchronisations**









\*DHF and WIFI: 730 and 740 only \*\* GPS: 750, 760, and 780 only

#### **Dials**

Three marking options





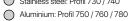


figures notches

#### **Bezels**



Stainless steel: Profil 730 / 740



	730	740	750	760	780
Dial diameter	30 cm	40 cm	50 cm	60 cm	80 cm
Reading distance	20 m	35 m	50 m	60 m	80 m
Display	Hours, minutes, seconds <sup>1</sup>				
Mounting options	Wall <sup>2</sup>				
Use	Indoor Indoor or Outdoor				
	1 On option: seconds				

PROFIL PROFIL PROFIL PROFIL



<sup>1.</sup> On option: seconds

<sup>2.</sup> On option: mast / ceiling

## Profil 900









With its understated, timeless design, the Profil 900 is Bodet's most popular clock. Many facilities choose this model because it offers all the types of synchronisation and a wide range of dial sizes.













#### **Product** advantages

- : Reading distance: from 20 to 60 m
- **Reinforced fibreglass manufacture** (IKO8 Profil 960)
- Available in a double-sided version
- Various attachment methods (wall, ceiling, mast)

#### **Characteristics**

#### **Synchronisations**















\* WIFI: all except profil 960 \* \* GPS: 960 outdoor only

#### **Dials**

Three marking options







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#### **Bezels**









	930	940	960	
Dial diameter	30 cm	40 cm	60 cm	
Reading distance	20 m 35 m		60 m	
Display	Hours, minutes, seconds <sup>1</sup>			
Mounting options	Wall <sup>2</sup>			
Use	Indoor Indoor			

PROFIL

PROFIL

**PROFIL** 



<sup>2.</sup> On option: mast / ceiling / single- or double-sided

## Profil 930 L



The Profil 930 L clock is innovative as it is a 100% standalone solution. Powered by natural and artificial light, it is easy to install since no wiring is required for power and the synchronisation is made via Bodet DHF radio waves.







## Product advantages

- 100% recycled material, version with black background
- > The organic solar cells are completely re-usable
- This model operates using a **light energy source such as sun or artificial light**
- **•** The clock stores its energy without using any batteries
- The clock has a radio synchronisation. Therefore no wiring is required.

#### **Characteristics**

#### **Synchronisations**





### Dials Two marking options



figures notches

#### **Bezels**





	PROFIL 930 L	
Dial diameter	30 cm	
Reading distance	20 m	
Display	Hours, minutes	
Mounting options	Wall <sup>1</sup>	
Use	Indoor	
	On option: mast / ceiling / sing double-sided	gle- d

Education

Industry





1. On option: mast / ceiling / single- or double-sided

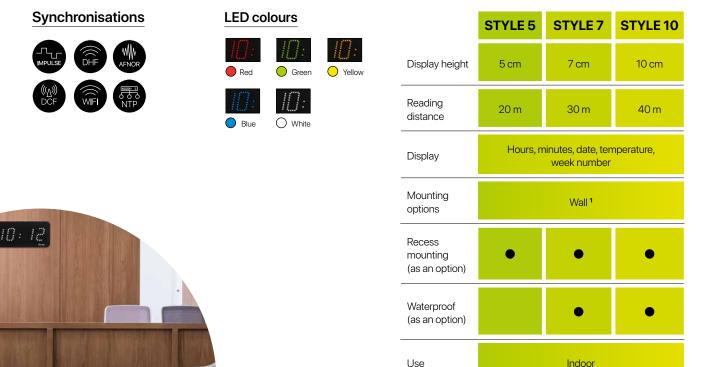
Style digital clocks make telling time easy with their digital display (hours/minutes). The clocks are easy to use with a clean, modern design.



#### **Product advantages**

- Five LED colours to choose from (red, green, yellow, blue, and white)
- **:• Four levels** of adjustable brightness
- **Easy to read** with a matt finish that removes glare.
- **An energy-saving mode** that can be scheduled for a specific time slot

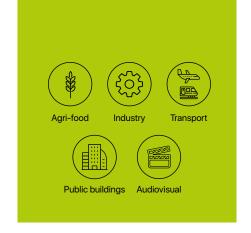
#### **Characteristics**



## Style S

#### Optimised time management

These precise and complete models display the hours, minutes and seconds too. These features allow you to measure speaking time during meetings, the time spent on a task, to control processes, or start a countdown to an event.















Style 7S





#### **Product advantages**

- **Displays additional information:** seconds, date, temperature
- **Game clock function** (counting up, counting down) with Style and Style OP keyboard (except Style 7 Ellipse)

#### **Characteristics**

#### **Synchronisations**

















	STYLE STYLE 7S		STYLE 10S	STYLE 7E	
Display height	5 cm	7 cm	10 cm	7 cm	
Reading distance	20 m	30 m	40 m	30 m	
Display	Hours, minutes, seconds, date, temperature, week number				
Mounting options	Wall <sup>1</sup>				
Recess mounting (as an option)	•				
Use	Indoor				

1. On option: mast / ceiling / single- or double-sided

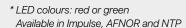


Style 7S OP\*, Style 5S OP\*, Style OP keyboard: these models are perfectly suited to the healthcare sector. These clocks' design helps hospitals and clinics to respect the strictest standards of hygiene and to precisely time each surgical act, such as anaesthesia, surgery or operation.

#### Product advantages

- **Stainless steel bezel and tempered glass lens** to make operating rooms easier to clean
- \* Recess-mountable models to avoid dust build-up
- Game clock function (Style OP keyboard) to count time up or down





## Style Date

#### A complete display

This range of clocks shows the time as well as other information. It offers a very complete display system.







Transport













## Product advantages

- Three types of attachment available: wall, mast, or ceiling
- **Simultaneous display** of the date and time
- Other information possible: day of the week, alternating languages

#### **Characteristics**

#### **Synchronisations**









#### **LED** colours











	STYLE 7 Date	STYLE 10 Date	STYLE 10S Date	
Display height	7 cm	10 cm	10 cm	
Reading distance	30 m 40 m		40 m	
Display	Hours, minutes, date, day of the week, temperature		+ seconds	
Mounting options				
Recess mounting (as an option)	•			
Waterproof (as an option)	•			
Use	Indoor			

1. On option: mast / ceiling / single- or double-sided

## Industry: clocks adapted to the sector

The Style 7 Date and Style 10S Date clocks have been developed for the environments specific to food processing and manufacturing, etc.

#### **Product advantages**

- Recess-mounted version to limit dirt build-up (Style 7 Date only)
- **Waterproof version** (IP55) to withstand splashes of water while cleaning facilities (Style 7 Date only)



## World Style









#### An international clock

This range of clocks displays several time zones and shows the time in several cities around the world simultaneously (up to seven cities). Perfect for companies and airports with an international audience.









#### **Product** advantages

- Option of selecting cities from around the world
- Can show 3, 4, 5, 6, or 7 cities
- : Choice of five LED colours
- : Adjustable brightness

#### **Characteristics**

#### **Synchronisations**











#### **GLOBAL** Display height 5 cm Reading 20 m distance Display From 3 to 7 cities Mounting Wall options Use Indoor

#### **LED** colours















## **HMT LED** For perfect readibility



The HMT LED range of clocks is suitable for the most demanding climate conditions, such as humidity and extreme temperatures. It combines all the technical performance needed to fit into outdoor and large indoor spaces such as airports, train stations, car parks, shopping centres, factories and stadiums.





#### **Product** advantages

- Waterproof (IP54)
- **Resilient** (IK07 for better impact resistance)
- : Time count/countdown mode
- Automatic display brightness adjustment
- **Time easy to see** thanks to anti-glare protection

#### **Characteristics**

#### **Synchronisations**

















	10	15	20	25	45
Display height	10 cm	15 cm	20 cm	25 cm	45 cm
Reading distance	40 m	200 m			
Display	Hour, minutes, date, temperature				
Mounting options	Mast, ceiling, double sided Wall				Wall
Waterproof	•				
Use	Outdoor				

HMT HMT HMT HMT



## **HMS LED**

#### A clock for transport

The clocks in the HMS LED range, specifically intended for the transport sector, are often put to the test. Between the sun, high temperatures, rain, ice, cold, and impacts, they are designed to resist all kinds of weather conditions.





#### **Product** advantages

- **Complete time display** (hours, minutes, seconds, temperature)
- **Additional optional functions** (count-up or countdown game clock)
- **Casing that resists** dust, water, and exterior impacts
- **Equipped with tropicalised electronic boards** (to prevent rust, humidity and mould)

#### **Characteristics**

#### **Synchronisations**













#### **LED** colours













	HMS 10	HMS 15	HMS 25	HMS 45
Display height	10 cm	15 cm	25 cm	45 cm
Reading distance	40 m	60 m	120 m	200 m
Display	Hours, minutes, seconds, date, temperature, week number			
Mounting options	Mast, ceiling, double sided			Wall
Waterproof	•			
Use	Outdoor			

### **Cristalys** For multifunction displays



At once remarkable and understated, this range of clocks fits into any environment. You can regularly find them in meeting rooms, offices, and reception halls in businesses and public administrations.

















#### **Product** advantages

- **Easy to read** with high contrast
- : Low energy consumption
- Many display possibilities depending on the model, such as multilingual or numerical date, year, day and week number, ambient temperature, names of cities or places, or event countdowns
- **Batteries last more than three years** on battery-powered models

#### **Characteristics**

#### **Synchronisations**







10: 12

MON

21 SEPT

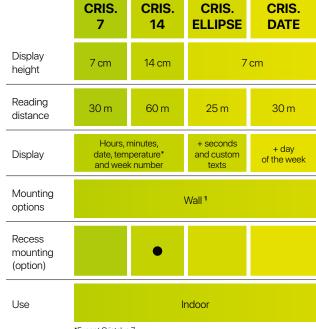


#### Casing colours





$\bigcirc$	White



\*Except Cristalys 7 1. On option: mast / ceiling / table support

## **Opalys**







#### Clocks to set the time to your day

Opalys is a range of indoor clocks with clean lines. Its backlit LCD screen softly shows the time. It has a fixed or alternating mode to broadcast a variety of information throughout the day.

















#### **Product** advantages

- **LCD** display with a wide reading angle (160°)
- **Easy to see** in large, poorly lit, or dark spaces
- Anti-theft locking system with provided wall support
- Many display possibilities depending on the model, such as multilingual or numerical date, year, day and week number, ambient temperature, names of cities or places, or event countdowns

#### **Characteristics**

#### **Synchronisations**









Departures



#### **Casing colours**



Aluminium

	7	14	ELLIPSE	DATE
Display height	7 cm 14 cm		7 cm	
Reading distance	30 m	60 m	25 m	30 m
Display	date, tem	minutes, perature* < number	+ seconds and custom texts	+ day of the week
Mounting options	Wall <sup>1</sup>			
Recess mounting (option)		•		
Use	Indoor			
	*except Opalys 7			

ODA ODA ODA

1. On option: mast / ceiling / table support

## What is synchronisation?

Synchronisation is the stage that occurs before time distribution when the master clock or time server retrieves a very precise time from satellites (GPS, Galileo, Beidou, GLONASS) or land antennas (DCF).

The master clock or time server receives the UTC message and distributes the information to the clocks. During the summer/winter time changeover, it transmits the synchronisation time message after applying the time difference.

## Bodet's two solutions

#### Master clocks

Master clocks distribute a precise, reliable time to the other clocks.

The Sigma software installed on a PC configures the master clock to distribute the time to the clocks.

#### Time servers

Time servers transmit extremely precise time information to devices connected to the IT network, including clocks.

Netsilon's on-board web server allows you to configure the time server. This web server is accessible to authorised users from any computer on the IT network.













## Supervised time distribution

In addition to providing synchronisation, supervised time distribution allows you to configure, track the status of and receive alerts from a remote fleet of clocks through the IT network.

It operates with any SNMP-compatible software that receives the messages sent by the supervised clocks: battery faults, alarm faults, impacts, etc.

#### **Benefits**

- Supervision through an IT network allows you to send as well as receive data. On many models, this same cable is used to provide power.
- Since the SNMP protocol is a standard, clock tracking integrates into any supervisory system.
- There is no limit to the number of clocks that can be synchronised.
- A maintenance operation can be initiated as soon as a problem appears for an optimal reaction time.

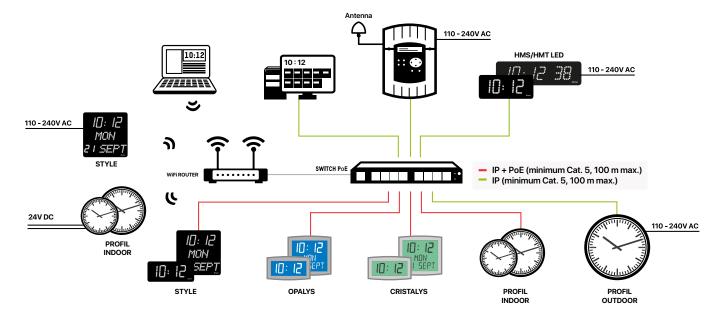
### Time distribution

Time distribution consists of synchronising a network of clocks within one or more buildings via a master clock or a time server.

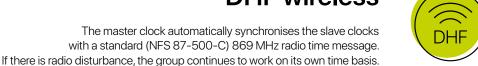


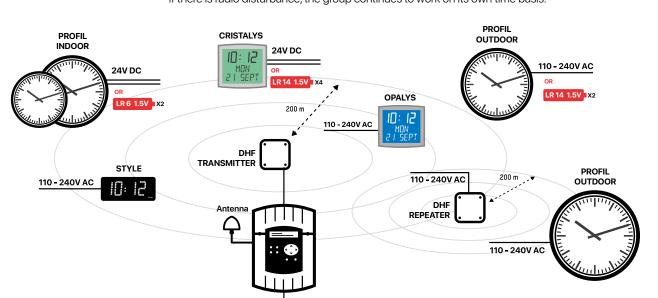
#### NTP: Ethernet Cable or Wi-Fi

When connected to the IT network, slave clocks receive the NTP (Network Time Protocol) time message from the master clock or time server. Clocks can use a wired or Wi-Fi connection to the network. The time message is sent periodically (Multicast) or on request (Unicast).



#### **DHF** wireless





#### Free-field coverage: 1 km

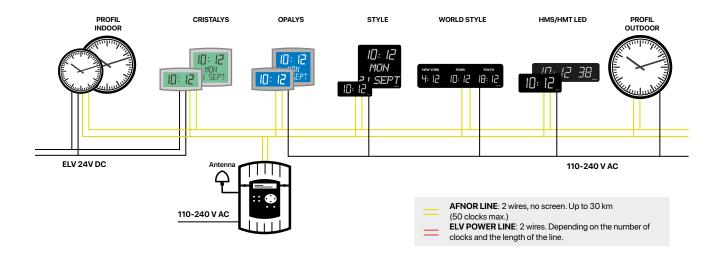
Coverage inside buildings is limited by the structure and number of walls that the radio signal needs to pass through (100-200 m). The coverage zone can be extended using secondary transmitters. The number of slave clocks is unlimited.

110 - 240V AC



#### Time code/AFNOR

Time code distribution, also called AFNOR code, sends a complete time message over a wired line. This method of distribution is widely used in large installations (train stations, airports) and those that require long distances of cables (NFS 87-500 standard).

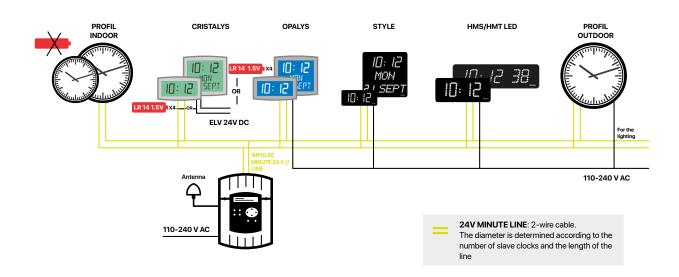


#### **Impulse**



The master clock sends electrical impulses every minute to the slave clocks on a distribution line.

This method of distribution is often used in small and medium-sized installations.



### We have their trust



See some of our customer references below:



#### **Airport**

France Roissy Charles de Gaulle | Paris-Orly | Nantes Atlantique |
Bordeaux | Lyon Saint-Exupéry | Guadeloupe Pointe à Pitre | Algeria
Algiers | Morocco De Casablanca Nouasseur | Tunisia Enfidha |
Belgium Brussels | Egypt Cairo | Italy Malpensa Milan | Maldives
Male International | Spain Madrid Barajas | Seville | Germany
Stuttgart | Hungary Budapest | Indonesia Jakarta | Thailand
Bangkok | New Zealand Wellington | Kazakhstan Astana | Chile
Arturo Merino Bénitez Santiago de Chile | Cyprus Larnaca | Bulgaria
Sofia | Turkey Ankara | Portugal Lisbon



#### Railways

United Kingdom Eurotunnel | Canada Toronto-York Metro |
Tanzania Tanzanian Railways | Turkey Istanbul | Portugal REFER |
France Paris Métro (RATP) | RER stations | TGV and train stations |
Algeria Al Djazair Metro | Sidi Bel-Abbès Tramway | SNTF | Morocco
ONCF | Belgium SNCB Brussels | Brussels Metro | Senegal TER
in Dakar | Switzerland Nyon Railway | Tunisia Tunis Trains | Spain
RENFE | Greece Athens Metro | Romania Bucarest Metro Colombia
Bogota | Vietnam VNR Hanoi | Thailand Bangkok Mass Transit
System | Azerbaijan Baku | Egypt Cairo Metro



#### **Industry**

United Kingdom Chevron | Amazon | Rea Valley Foods | France
Toyota | Citroën | Peugeot | Michelin | Pirelli | Carrefour | Danone |
Nestlé | Louis Vuitton | Longchamp | Total | Switzerland Swatch
| Belgium Diteren | Toyota | AUDI | Morocco Primarios group |
Canada Ultima Foods | Italy Barilla | Czech Republic Skoda Power
| Germany Dachser | IDT | Sweden Scania | Malaysia Johnson
& Johnson | B Braun | Singapore Hewlett Packard | UAE Dubai
aluminium CCPP | Netherlands DHL Logistic | Portugal Renault |
Philippines Honda | Turkey Mercedes | Lacoste



#### Administration

United Kingdom Ministry of Defence | United Arab Emirates
Ministry of the Interior | Abu Dhabi Court House | France National
Assembly | Ministry of Defence | Ministry of Industry | French
Parliament | INSEE | Belgium European Parliament | NATO | Ivory
Coast National Post Office | Algeria ASAL Algerian Space Agency
| Cameroon Ministry of the Economy | Austria Central Post Office
| Germany BKA (Federal criminal police office) | Russia Red Gate
Moscow | Maldives Presidential Palace | Kenya The Parliament



#### **Hotels**

United Kingdom Hilton | UAE Hilton | France | BIS | Hilton | Latvia Marriot Hotel | Switzerland | BIS | Austria Hotel Almmesb | Estonia Radisson Blue Tallinn | Germany Novotel | Spain Hotel Mediterraneo | Poland Marriot Sheraton Warsaw| Qatar Mandarin Hotel Msheir | Taiwan Marriot | Macau Grand Hotel



#### **Energy**

France EDF | CEA | RTE | Belgium Tihange Nuclear Power Plant | Norway Statoil | Romania Transgaz | Turkey Izmir Gas Power Plant | Philippines CBK Power Plant | Indonesia Muara Tower Brantas | Power Station | Cameroon Société Nationale des Hydrocarbures | Russia Saint Petersburg Power Plant | Saudi Arabia Tabook Power Plant



#### **Audiovisual**

France TF1 | Opéra de Lyon | Eutelsat | BSRQ Media | France
TV | Radio LE SUN | Switzerland Radio Suisse Romande | Radio
Télévision | TSR TV | Belgium RTBF | Studio Radio Libramont | Italy
La Scala | Spain Ràdio Calella Televisió | Nova Radio | RTV Murcia
| TVE | Egypt Middle East Radio | Thailand Thai TV5 Channel |
Sweden Sveriges Radio | Poland Radio Bajka | Philippines Sky
Cable Corporation



#### **Education**

United Kingdom Dulwich Preparatory School London | Blossom House School | Guru Nanak Sikh Academy | Southfield school | Djanogly City Academy | Ireland Kylemore College | France École Marcel Pagnol | Lycée Émile Zola | Montaigne Paris | Switzerland EPSU Geneva | Algeria Lycée International Alexandre Dumas Algiers | Italy Lycée Chateaubriand Rome | Morocco Lycée Louis Massigon Casablanca | Senegal Lycée Jean Mermoz de Dakar | Spain Lycée français Madrid | Belgium Shape US School | Dubai UAE GEMS Sports Academy | Turkey Tobb University Ankara | Germany Lycée Victor Hugo Frankfort | Indonesia Lycée français Bali | Peru San Ignacio de Loyola University Lima | Sweden Lingenasskolan | Kenya Sabis International School | Kuwait Bayan International School | Malaysia Gems School | Oman Al Bayan College | Singapore National University of Singapore



#### Finance

United Kingdom Barclay's | Bank of England | Northern Trust | HSBC | Schroders | Lloyds | France Banque de Commerce | Barclays' | Banque de France | Crédit Lyonnais | Algeria Bank of Algeria | Morocco Banque de Commerce | Nigeria Central Bank of West African States | Senegal CBWAS Bank | Germany Deutsche Bank | Spain Banque Populaire | Portugal Lisbon Stock Exchange | Norway Bank of Norway | Indonesia BTN Jakarta | New Zealand Deutsche Bank | Singapore Banque de France | Abu Dhabi National Bank | Uruguay Abitab



#### Healthcare

United Kingdom Ulster Hospital | Sandwell General Hospital | Kings College Hospital | Chelsea and Westminster Hospital | Withybush Hospital | Australia Victorian Hospital Melbourne | Queensland Hospital | France Marseille European Hospital | Montpellier University Hospital | Algeria Alger University Hospital | Belgium Charleroi Hospital | La Citadelle Hospital Liège | Morocco Rabat Royal Clinic | Switzerland Neuchâtel Hospital | Sion Hospital | Austria Linz Hospital | Norway Akershus University Hospital | Portugal Saint Francisco Xavier Lisbon | Spain Vigo Hospital | Navarre Madrid University Clinic | Hong Kong Queen Mary Hospital | Singapore Parkway Hospital | Peru Cajamarca Hospital | UAE Burjeel Hospital Abu Dhabi | Russia Moscow Endocrinology Centre

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### Synchronise every moment



#### bodet-time.com

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#### **EXPORT**