# DIGITAL INDOOR CLOCK

# DC

*The slim housing of the DC models is packed with numerous functions and technical possibilities. The components can be individually selected to meet technical and visual requirements.*
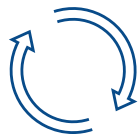
# THE DC HAS PLENTY TO OFFER

*The models of the DC series offer concentrated technology in a very slim housing, and surprise with several functions and design variants. The customizable display and many technical possibilities make the right solution possible for every application situation.*

## DISPLAY FEATURES

The LED display is available in several variants and colors; the reflection-free display background is black. Various display parameters can be set as required. (change display interval, world times, automatic brightness control, temperature settings, etc.)

## SYNCHRONIZATION

The DC supports all common synchronization and input types. It runs autonomously on a quartz basis, with an external time signal receiver or as a slave clock. This also allows it to be well integrated into existing systems.

## INTELLIGENT FUNCTIONS

The DC can do quite a bit more than many other digital clocks. In addition to the practical standard functions, each DC has a stopwatch with numerous options, a sensor for automatic display brightness, and other optional components (remote control, outdoor temperature sensor, etc.).

## HOUSING & INSTALLATION

The slim yet robust aluminum housing is available in several sizes and many colors. Installation is simple and the service time-saving, as the clock is attached to the rear wall with a snap lock, even with the double-sided model.

## SUPPORT

From planning to installation and during operation and maintenance – you can get answers to your questions and, if needed, support from our experts.

### Hospital
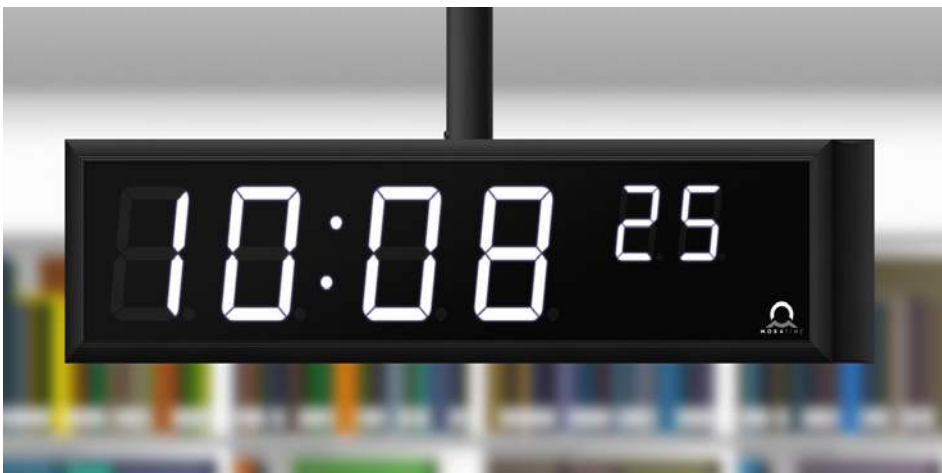DC 57.4, red display, wall console, double-sided, silver housing



### Hotel
DC 57.4, red display, ceiling suspension 50cm, one-sided, black housing



### Airport
DC 180.4, red display, one-sided, silver housing



### Factory
DC 75x.6, blue display, one-sided, silver housing



### Library
DC 100.6, white display, ceiling suspension 30cm, double-sided, black housing



### Customer-specific
DC 75.4, yellow display, special design for installation in glass columns

# 6 STEPS TO YOUR DC

*To make sure your digital clock meets all your requirements, you can assemble the components individually. Choose from various sizes, colors, and display variants, as well as installation options and additional options. Configure your DC according to your wishes, suitable for rooms and general conditions. Our experts will be happy to help you if you have questions.*

## 1.

### Define your display type and digit height

**FORMAT**

You have the choice. Display type, digit height, and number of digits offer multiple variations. The reading distance varies depending on the color, lighting, viewing angle, etc. The order code is composed as follows:

| Digit height | *10:08* | *10:08 25* | *10:08:25* | Reading distance |
|---|---|---|---|---|
| 57 mm | **57.4** | **57.6** | **57x.6** | 25–30 m |
| 75 mm | **75.4** | **75.6** | **75x.6** | 30–40 m |
| 100 mm | **100.4** | **100.6** | **100x.6** | 40–60 m |
| 180 mm | **180.4** | **180.6** | **180x.6** | 70–100 m |
| 250 mm[1] | **250.4** | - | **250x.6** | 100–150 m |

[1] only available with SMD LEDs (option SL)

## 2.

### Choose your display color

**DISPLAY COLOR**

The display background is black, offering optimal display contrast with a viewing angle of 160 degrees. The digit color is selectable. The available variants:

| red (R) | yellow (A) | green (G) | pure green (PG) | blue (B) | white (W) |

## 3.

### Which installation solution works?

**INSTALLATION SOLUTION**

Choose the one- or double-sided solution and pick a fitting installation option. Here you can see the codes for ceiling or wall installation, as well as the variants with or without wall bracket.

**N.N**
**Wall mounting single-sided**

**N.S**
**Ceiling suspension single-sided**

**D.S**
**Ceiling suspension double-sided**

**N.B**
**Wall bracket mounting single-sided**

**D.B**
**Wall bracket mounting double-sided**

# 4. Which time code do you need?

**SYNCHRONIZATION**

The following types of synchronization are available:

| CODE | SYNCHRONIZATION | POWER SUPPLY |
|---|---|---|
| STD | Autonomous / MOBALine / (un)polarized 24 VDC pulses | Mains |
| SI | Like STD, with RS-232, RS-485 and IRIG-B interface | Mains |
| NTP | NTP | Mains |
| PoE | NTP[1] | PoE |
| PoEclass | Like PoE, supports performance class output[1] | PoE |
| WiFi | WiFi (2.4 GHz), NTP | Mains |
| WiFi5 | WiFi (2.4/5.0 GHz), NTP | Mains |
| GPS | Integrated GPS receiver with external magnetic antenna[2] | Mains |

[1] DC 100x.6: only single-sided; DC 180: only 180.4 and 180x.6, with red / yellow display and option SL; DC 250: only 250.4 and 250x.6, single-sided, with red / yellow display and option SL
[2] not available for DC 57x.6, DC75.4 and DC.180
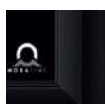
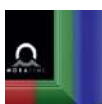# 5. Which housing color works?

**HOUSING COLOR**

The aluminum housing is usually ordered in black or silver anodized. It is available in any RAL color on request.

black       silver       RAL
on request

# 6. Want additional options?

**OPTIONS**

On request, the DC can be equipped with the following additional features:

| CODE | OPTION |
|---|---|
| VDC | Power supply via 18−56 VDC |
| VDC 12V | Power supply via 12−16 VDC[1] |
| REL | Internal relay[2] |
| REL-IP | Internal relay with firmware for switching functions[2] |
| SC | Battery-free RTC backup with supercapacitor for 12h |
| SL | SMD diode display[3] |
| ANT | Magnetic GPS antenna, cable 5m (included for GPS version) |
| IP 54 | IP 54 safety rating[4] |
| IP 65 | IP 65 safety rating |

[1] only DC 57, DC 100
[2] not available for DC 57.4
[3] not available for DC 75, DC with green display
[4] not available for DC 180, DC 250

## YOUR DC CLOCK IS COMPLETE

You can now order your DC and calculate the corresponding code. Enter the abbreviation for each component of your choice in the bright field and find your product code. It can be used immediately as an order code.

**My DC clock**        DC.

*1. Format*              Code _____ .
*2. Display color*       Code _____ .
*3. Installation solution* Code _____ .
*4. Synchronization*     Code _____ .
*5. Housing color*       Code _____ .
*6. Option*              Code _____

## *Example order code*

| | 1. | 2. | 3. | 4. | 5. | 6. |
|---|---|---|---|---|---|---|
| DC. | 57.4 . | R . | N.N . | STD . | black . | |
| DC | digit height 57mm HH:MM | red display | wall mounting, single-sided | standard version | black housing | no option |

# ACCESSORIES

*Whether high-precision synchronization from satellite or radio, convenient operation, or temperature display – you can find the right accessories for your clock here.*

| GNSS 4500 | DCF 4500 | IR | SK |

**GNSS 4500**
Receiver for direct synchronization via GPS.

**DCF 4500**
Receiver for direct synchronization via DCF 77.

**Infrared remote control**
Universal remote control for all MOBATIME digital clocks with infrared interface.

**Stopwatch keyboard**
Used to control the stopwatch function. Cable length 5m.

| TP 3M | TP 30M | TP RS485 | TP LAN |

**Temperature sensor**
Cable length 3m.
Requires TP option.

**Temperature sensor**
Cable length 30m.
Requires TP option.

**Temperature sensor**
Cable length 3m.
For SI version only.

**Temperature sensor**
Cable length 3m.
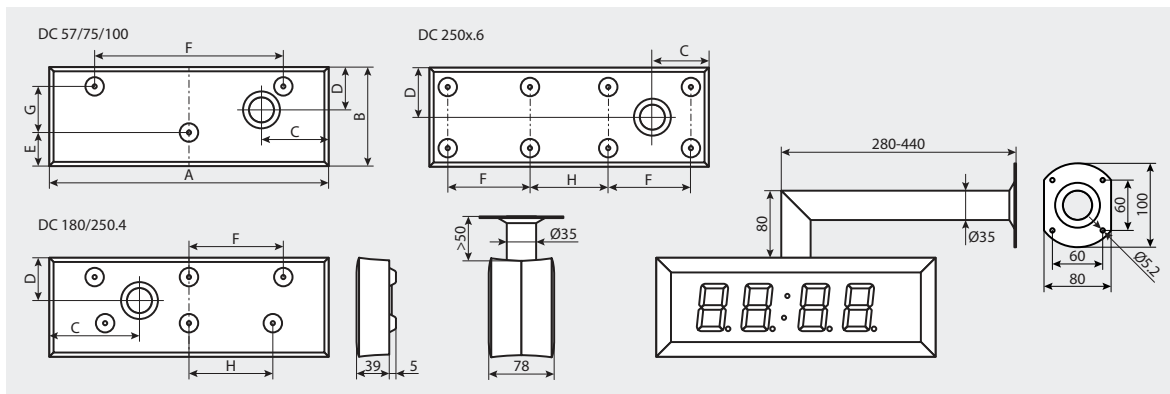For NTP, PoE, and WiFi versions only.

*Wherever your journey takes you – we will be there.* MOBATIME

# TECHNICAL DATA

| DC | 57.4 | 57.6 | 57x.6 | 75.4 | 75.6 | 75x.6 | 100.4 | 100.6 | 100x.6 | 180.4 | 180.6 | 180x.6 | 250.4 | 250x.6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Digit height (mm) | 57 | 57/38 | 57 | 75 | 75/57 | 75 | 100 | 100/57 | 100 | 180 | 180/100 | 180 | 250 | 250 |
| Display features | Time display in 12-hour or 24-hour format <br> Alternating display of time, date, temperature[1] (in C° or F°), air pressure[1] and humidity[1] <br> Automatic or manual display brightness adjustment <br> Stopwatch (count up to 24 hours, countdown from set value, display of time intervals, freezing of display...) <br> Stopwatch operation via push buttons, IR remote control | | | | | | | | | | | | | |
| Material | Housing: aluminum <br> Cover glass: anti-reflective plexiglass | | | | | | | | | | | | | |
| Power supply | Standard: 100 – 240 VAC, 50 – 60 Hz <br> VDC (on request): 18 – 56 VDC (18 – 40 VAC) <br> VDC 12V (on request): 12 – 16 VDC | | | | | | | | | | | | | |
| | PoE version: PoE (IEEE 802.3af class 0) <br> PoEclass version: PoE (IEEE 802.3af class 3) | | | | | | | | | - | - | - | - | - |

| Power consumption (VA) | | 57.4 | 57.6 | 57x.6 | 75.4 | 75.6 | 75x.6 | 100.4 | 100.6 | 100x.6 | 180.4 | 180.6 | 180x.6 | 250.4 | 250x.6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SS | 7 | 8 | 8 | 7 | 8 | 8 | 7 | 8 | 10 | 25 | 30 | 36 | 8[2] | 12[2] |
| | DS | 11 | 16 | 16 | 11 | 16 | 16 | 11 | 16 | 18 | 50 | 60 | 75 | 16[2] | 122[2] |
| | SS PoE | 7 | 8 | 8 | 7 | 8 | 8 | 7 | 8 | 10 | 6[2] | - | 7[2] | 8[2] | 12[2] |
| | DS PoE | 11 | 15 | 15 | 11 | 15 | 15 | 11 | 15 | 15 | 10[2] | - | 13[2] | - | - |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Quartz accuracy at 20 °C | ± 0.1 seconds/day without synchronization (after 24 hours of synchronization at constant temperature) |
| RTC backup/ quartz-based time maintenance | Mains power supply | from lithium battery: > 2 years (without power supply) / > 15 years (with power supply) |
| | PoE power supply | no time maintenance |
| Operating conditions | -5 to +55 °C (0 to 95% relative humidity, non-condensing) |
| Degree of protection | IP 40, optionally IP 54 or IP 65 ... IP 40, optionally IP 65 |
| Standards | 2002/96/EC / 2011/65/EU / 2014/30/EU / 2014/35/EU / EN 50121-4 / EN 55022 / EN 55024 / EN 60950-1 |

| Weight (kg) | | 57.4 | 57.6 | 57x.6 | 75.4 | 75.6 | 75x.6 | 100.4 | 100.6 | 100x.6 | 180.4 | 180.6 | 180x.6 | 250.4 | 250x.6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SS | 1.4 | 1.8 | 1.9 | 1.9 | 2.4 | 2.5 | 2.4 | 3.1 | 3.5 | 6.3 | 9.3 | 10.4 | 10 | 14 |
| | DS | 2.6 | 3.0 | 3.2 | 3.5 | 4.2 | 4.3 | 4.4 | 5.6 | 6.0 | 10.2 | 15.3 | 17.6 | 15 | 20 |
| Dimensions (in mm, see below) | A | 333 | 423 | 454 | 400 | 525 | 550 | 510 | 652 | 728 | 880 | 1146 | 1260 | 1230 | 1720 |
| | B | 118 | 118 | 118 | 140 | 140 | 140 | 169 | 169 | 169 | 264 | 264 | 264 | 350 | 350 |
| | C | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 300 | 470 | 275 | 980 | 250 |
| | D | 51 | 51 | 51 | 55 | 55 | 55 | 51 | 51 | 51 | 120 | 120 | 120 | 175 | 175 |
| | E | 40 | 40 | 40 | 35 | 35 | 35 | 36 | 36 | 36 | 44 | 44 | 44 | 40 | 40 |
| | F | 225 | 225 | 256 | 300 | 425 | 450 | 300 | 400 | 470 | 300 | 400 | 520 | 575 | 555 |
| | G | 55 | 55 | 55 | 75 | 75 | 75 | 110 | 110 | 110 | 180 | 180 | 180 | 270 | 270 |
| | H | - | - | - | - | - | - | - | - | - | 260 | 450 | 520 | 575 | 530 |

SS = single-sided; DS = double-sided
[1] only with external temperature sensor    [2] only with SL option



DC 57/75/100

DC 250x.6

DC 180/250.4

*Have questions?*
*We are happy to help.*

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