MOBATIME

SWISS TIME SYSTEMS

## DIGITAL INDOOR CLOCK

# DA

*The DA series covers elegant and very slim digital clocks in 7 segment LED technique for displaying time and date inside a second circle. Wall-mounted versions with a character height of 45 or 57 mm as well as special 18 mm versions for tabletop or panel applications are available.*

# 6 STEPS TO YOUR DA

***To make sure your digital clock meets all your requirements, you can assemble the components individually. Our experts will be happy to help you if you have questions.***

## 1.

### *Define your display type and digit height*

**FORMAT**

The DA clock is available in the following sizes. The reading distance varies depending on the color, lighting, viewing angle, etc.

| Digit height | Code | Reading distance |
|---|---|---|
| 57 mm | **57.6** | 25–30 m |
| 45 mm | **45.6** | 18–25 m |
| 18 mm | **18.6** | 7–10 m |

## 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)* | pure green (PG) | blue (B)* | white (W)

*only for DA.45, DA.57

## 3.

### *Which installation solution works?*

**INSTALLATION SOLUTION**

DA 57/45

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

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

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

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

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

xx = 5/10/30/50cm

DA 18

**N.T**
Table clock

**N.FP**
Front panel

# 4. Which time code do you need?

**SYNCHRONIZATION**

The DA is designed for all common synchronization types, and is also a good solution as a supplement to existing systems.

| 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[1] | Mains |
| **NTP** | NTP | Mains |
| **PoE** | NTP | PoE |
| **PoEclass** | Like PoE, supports performance class output | PoE |
| **WiFi** | WiFi (2.4 GHz), NTP[2] | Mains |
| **WiFi5** | WiFi (2.4/5.0 GHz), NTP[2] | Mains |

[1] DA.18: only RS-232
[2] only for DA.45, DA.57

# 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 DA can be equipped with the following additional features:

| CODE | OPTION |
|---|---|
| **VDC** | Power supply via 18–56 VDC[1] |
| **VDC 12V** | Power supply via 12–16 VDC |
| **REL** | Internal relay[1] |

[1] not available for DA.18

# Do you need accessories?

**ACCESSORIES**

| CODE | ACCESSORY |
|---|---|
| IR | remote IR controller |
| DCF 4500 | DCF77 radio signal receiver |
| GNSS 4500 | GNSS receiver including antenna |
| SK | keyboard for stopwatch control, cable 5m |
| TP 3m | temperature sensor, IP 66, cable 3m |
| TP 30m | temperature sensor, IP 66, cable 30m |
| TP RS485 | temperature sensor with RS 485 interface, power supply 12 VDC, cable between sensor and interface 3 m (for SI version only) |
| TP LAN | temperature sensor with Ethernet interface, power supply 5 VDC, cable between sensor and interface 3 m (for NTP, PoE and WiFi version only) |

# YOUR DA CLOCK IS COMPLETE

You can now order your DA 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 DA clock | | DA. |
|---|---|---|
| *1. Format* | Code | . |
| *2. Display color* | Code | . |
| *3. Installation solution* | Code | . |
| *4. Synchronization* | Code | . |
| *5. Housing color* | Code | . |
| *6. Option* | Code | |

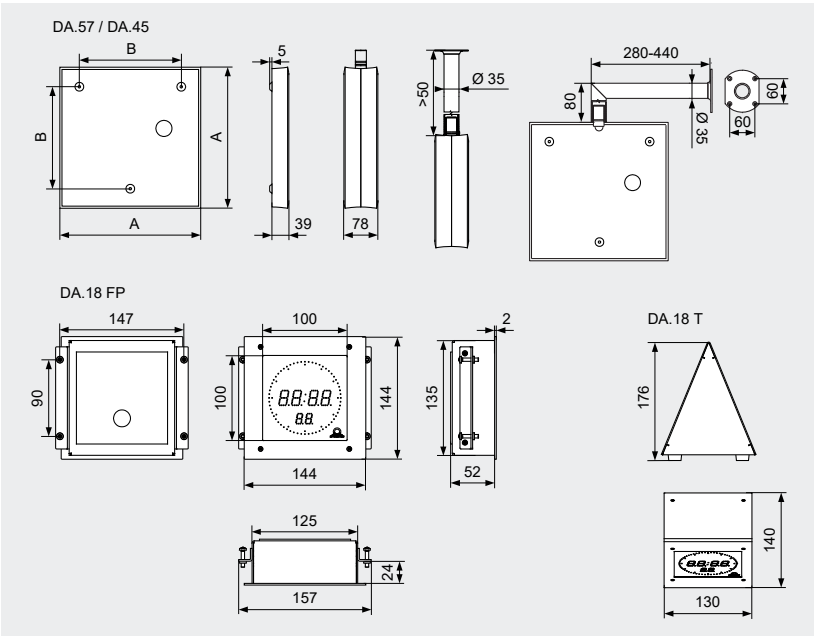
## Example order code

| | 1. | 2. | 3. | 4. | 5. | 6. |
|---|---|---|---|---|---|---|
| **DA.** | 57.6 . | R . | N.N . | STD . | black . | |
| DA | digit height 57mm | red display | wall mounting, single-sided | standard version | black housing | no option |

# TECHNICAL DATA

| DA | | 57.6 | 45.6 | 18.6 T | 18.6 FP |
|---|---|---|---|---|---|
| Digit height (mm) | | 57/38 | 45/32 | 18/13 | 18/13 |
| Display features | | Time display in 12-hour or 24-hour format<br>Alternating display of time, date and temperature (in C° or F°, with external temperature sensor connected)[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...)[1]<br>Stopwatch operation via push buttons, IR remote control[1] | | | |
| Material | | Housing: aluminum<br>Cover glass: anti-reflective plexiglass | | | |
| Power supply | | Standard: 100 – 240 VAC, 50 – 60 Hz<br>VDC (option, not for PoE version): 24 VDC | | 12 VDC | |
| | | PoE Version: PoE (IEEE 802.3af-Class 0)<br>PoE Version: PoE (IEEE 802.3af-Class 2) for single-sided clocks | | | |
| | | PoE version: PoE (IEEE 802.3af class 2) for double-sided clocks | | - | |
| Power consumption (VA) | SS | 6 | | 4.5 | |
| | DS | 11 | | - | |
| 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 | | | |
| Temperature precision | | -10 to +85 °C: ±0.5 °C, -50 to +125 °C: ±2.0 °C | | | |
| Operating conditions | | -5 to +55 °C (0 to 95% relative humidity, non-condensing) | | | |
| Degree of protection | | IP 40 | | IP 20 | IP 40 |
| 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) | SS | 2.5 | 2 | 0.7 | 0.5 |
| | DS | 4.1 | 3.3 | - | - |
| Dimensions (in mm, see below) | A | 325 | 260 | - | - |
| | B | 235 | 170 | - | - |

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

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

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Product specifications are subject to change without notice.