

DIGITAL INDOOR CLOCK

DK

The DK series calendar clocks display simultaneously information about time and date. The date information can be displayed in more than 20 languages. One single display unit can be programmed to alternate between three different languages.



6 STEPS TO YOUR DK

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 DK according to your wishes, suitable for rooms and general conditions. Our experts will be happy to help you if you have questions.

1.

Define the display type

FORMAT

The DK version is available with four or six-digit time display. digits offer multiple variations. The reading distance varies depending on the color, lighting, viewing angle, etc. The order code is composed as follows:

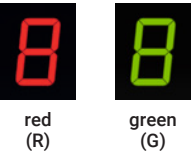
Digit height	10:08	10:08 25	Reading distance
57 mm	57.4	57.6	25–30 m

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:

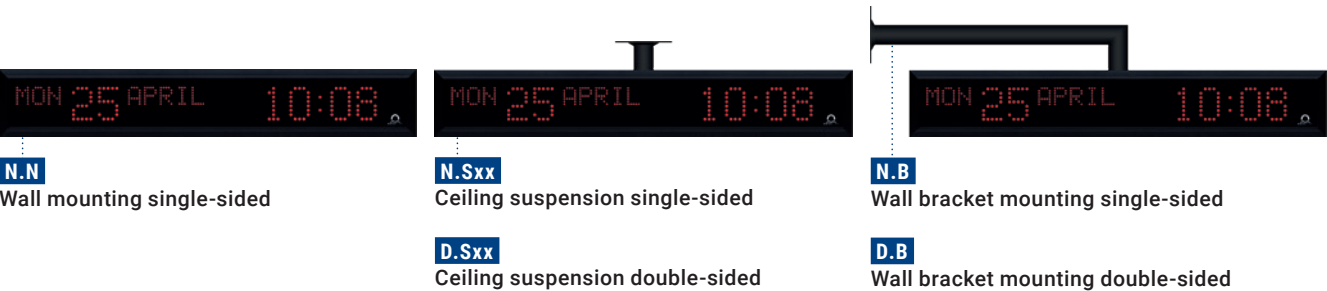


3.

Which installation solution works?

INSTALLATION SOLUTION

Choose the single- or double-sided solution and pick a fitting installation option.



xx = 5/10/30/50cm

4. Which time code do you need?

SYNCHRONIZATION

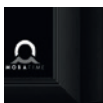
The DK is designed for all common synchronization types, and is also a good solution as a supplement to existing systems.

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	Mains
NTP	NTP	Mains
PoE	NTP	PoE
PoEclass	Like PoE, supports performance class output	PoE

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 DK 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
REL	Internal relay

YOUR DK CLOCK IS COMPLETE

You can now order your DK 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 DK clock DK.

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.
DK.	57.4	R	N.N	STD	black	
DK	digit height 57mm HH-MM	red display	wall mounting, single-sided	standard version	black housing	no option

Do you need accessories?

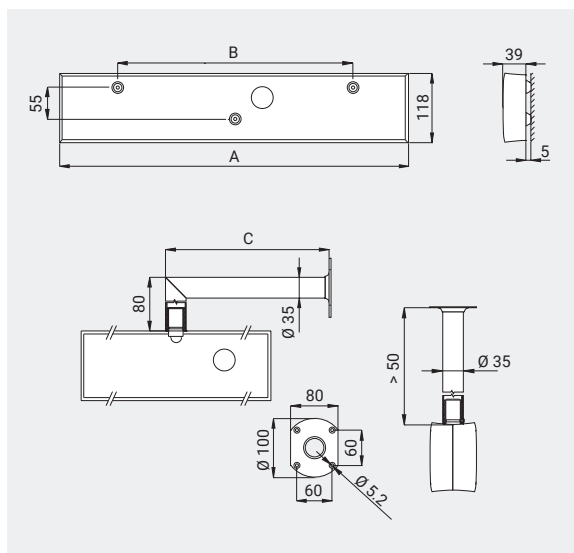
ACCESSORIES

CODE	ACCESSORY
IR	remote IR controller
AD 650	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)

TECHNICAL DATA

DK		57.4	57.6
Digit height (mm)		57	57/38
Character height (mm)		30	
Date display format		Weekday: 3 digits Date: Day + 8 digits month name Supported languages: English, German, French, Italian, Russian, Spanish, Portuguese, Polish, Hungarian, Dutch, Danish, Finnish, Swedish, Norwegian, Serbian (Latin/Cyrillic), Croatian, Czech, Slovak, Slovene, Romanian, Bulgarian, Greek	
Display features		Time display in 12-hour or 24-hour format Alternating display of date and temperature (up to two temperatures with description in °C or °F, with external temperature sensor connected) ¹ Automatic or manual display brightness adjustment Stopwatch (count up to 24 hours, countdown from set value, display of time intervals, freezing of display...) ¹ Stopwatch operation via push buttons, IR remote control ¹	
Material		Housing: aluminum Cover glass: anti-reflective plexiglass	
Power supply		Standard: 100 – 240 VAC, 50 – 60 Hz VDC (option, not for PoE version): 24 VDC PoE version: PoE (IEEE 802.3af class 0)	
Power consumption (VA)	SS	7	8
	DS	11	16
	SS PoE	7	8
	DS PoE	11	15
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		-25 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	
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	2.6	3.3
	DS	4	5
Dimensions (in mm, see below)	A	735	800
	B	460	540

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



LE-800450.23 / 2022

Have questions?
We are happy to help.

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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:



*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

DA 18



N.T
Table clock



N.FP
Front panel

xx = 5/10/30/50cm

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

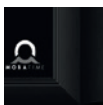
¹ DA.18: only RS-232

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

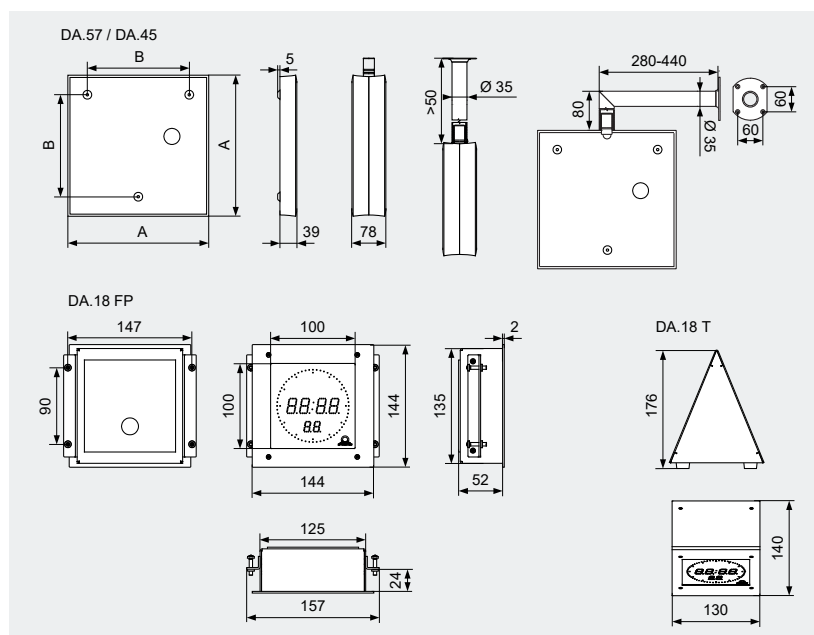


	1.	2.	3.	4.	5.	6.
DA.	57.6	R.	N.N.	STD.	black.	
DA	digit height 57mm	red display	wall mounting, single-sided	standard version	black housing	no option

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 Alternating display of time, date and temperature (in C° or F°, with external temperature sensor connected) ¹ Automatic or manual display brightness adjustment Stopwatch (count up to 24 hours, countdown from set value, display of time intervals, freezing of display...)¹ Stopwatch operation via push buttons, IR remote control¹							
Material		Housing: aluminum Cover glass: anti-reflective plexiglass							
Power supply		Standard: 100 – 240 VAC, 50 – 60 Hz VDC (option, not for PoE version): 24 VDC				12 VDC			
		PoE Version: PoE (IEEE 802.3af-Class 0) 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



Have questions?
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Product specifications are subject to change without notice.

DIGITAL OUTDOOR CLOCK

DT

The elegant and slim digital clock shows not only the exact time but also air and/or water temperature. It can be installed indoor or outdoor and is therefore the ideal clock for out- and indoor swimming pools, ski resorts, spas, public buildings, etc.



5 STEPS TO YOUR DT

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

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

Code	Size	Reading distance
100	100mm	40–60 m
100/57	Time/date: 100mm Temperature: 57mm	40–60 m 25–30 m
180	180mm	70–100 m

3.

Which installation solution works?

INSTALLATION SOLUTION

Choose the one- or double-sided solution and pick a fitting installation option.



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

2.

How many displays do you need?

DISPLAYS

The DT supports up to two time and three temperature displays, color combinations are possible.

CODE	DESCRIPTION
1Cx	One time display
2Cx	Two time displays

CODE	DESCRIPTION
1Tx	One temperature display
2Tx	Two temperature displays
3Tx	Three temperature displays

The display background is black, offering optimal display contrast with a viewing angle of 160 degrees. The following colors are available:



Example: 1CR.1TR1TPG

One red time display, one red and one pure green temperature display

4. Which time code do you need?

SYNCHRONIZATION

The DT 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	Mains
NTP	NTP	Mains
WiFi	WiFi (2.4 GHz), NTP	Mains
WiFi5	WiFi (2.4/5.0 GHz), NTP	Mains
GPS	Integrated GPS receiver with external magnetic antenna	Mains

YOUR DT IS COMPLETE

You can now order your DT 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 DT clock DT.

1. Format Code

2. Display color Code

3. Installation solution Code

4. Synchronization Code

5. Option Code

Example order code: DT.100.1CR.2TR1PG.V.N.N

5. Want additional options?

OPTIONS

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

CODE	OPTION
VDC	Power supply via 18–56 VDC
ANT	Magnetic GPS antenna, cable 5m (included for GPS version)
RALxxxx	housing in custom RAL color

Example order code



Do you need accessories?

ACCESSORIES

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

CODE	ACCESSORY
IR	remote IR controller
AD 650	DCF77 radio signal receiver
GNSS 4500	GNSS receiver including antenna
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)

	1.	2.	3.	4.	5.
DT.	100.	1CR.1TR.	N.N.	STD.	
DT	digit height 100mm	one red time display one red temperature display	wall mounting, single-sided	standard version	no option

TECHNICAL DATA

DT	100/57. 1C.2T	100. 1C.1T	100. 1C.2T	100. 1C.3T	100. 2C.1T	100. 2C.2T	180. 1C.1T	180. 1C.2T	180. 1C.3T	180. 2C.1T	180. 2C.2T
Digit height (mm)	100/57	100	100	100	100	100	180	180	180	180	180
Display features	Time display in 12-hour or 24-hour format Alternating display of time, date and temperature (in C° or F°, with external temperature sensor connected) Automatic or manual display brightness adjustment										
Material	Housing: aluminum (RAL 7040) Cover glass: tempered mineral glass with anti-reflective foil										
No. of time displays	1	1	1	1	2	2	1	1	1	2	2
No. of temperature displays	2	1	2	3	1	2	1	2	3	1	2
Power supply	Standard: 100 – 240 VAC, 50 – 60 Hz VDC (on request): 18 – 56 VDC (18 – 40 VAC)										
Power consumption (VA)	28	20-30	30-45	40-60	30-45	40-60	30-46	45-69	60-92	45-69	60-92
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	From lithium battery: > 2 years (without power supply) / > 15 years (with power supply)										
Temperature precision	-10 to +85 °C: ±0.5 °C, -55 to +99.5 °C: ±2.0 °C										
Operating conditions	-25 to +60 °C (0 to 95% relative humidity, non-condensing)										
Degree of protection	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)	8.5	9.5	13.5	17	13.5	17	24	35	44	35	44
Dimensions (in mm, see below)	A	500	530	530	530	530	940	940	940	940	940
	B	446	360	530	700	530	560	830	990	830	990
	C	60	60	60	60	60	60	60	60	60	60

