

DIGITAL OUTDOOR CLOCK

DSC

The DSC is a general-purpose digital clock of contemporary design and slim appearance. Its robust housing and bright display make it ideal for both outdoor and indoor applications where readability from large distances is desired.



FEATURES

DISPLAY

- continuous display of time, date, temperature or stopwatch
- alternating display of time, date, calendar week, temperature, humidity, and atmospheric pressure, with customizable intervals from 0-60 seconds for each display
- manual or sensor-controlled automatic display brightness adjustment
- wide viewing angle (160°)

Time

- 12/24 hour cycle
- with or without leading zero
- AM/PM indication for 12 hour cycle

Date

- with or without leading zero

Temperature

- in °C or °F

HOUSING

- clock frame made of powder-coated aluminium profiles in black or silver, any RAL color on request
- anti-reflection front cover made of plexiglass, including a filter layer for optimal readability
- mounting on tilting console for easy installation and time-saving maintenance
- push buttons on the inside of the frame (behind the cover)

STOPWATCH

- counting up from zero, up to 24 hours
- counting down from a predefined time value, with stop at zero, automatic restart from predefined time or counting into negative values
- display of intermediate time values, display "freeze"
- counting in steps of 1 day, 1 minute, 1 second
- or 1/100 seconds
- possibility to connect another display unit
- possibility of parallel switching over into the time and date or temperature display mode

CONFIGURATION

- setting of the clock parameters, as well as time, date, and stopwatch control by means of push buttons or IR/RF remote controller; stopwatch can additionally be controlled via big red button

SYNCHRONIZATION

- autonomous operation with internal quartz base
- accuracy ± 0.1 s/day at constant temperature – software trimming
- possibility to configure any time zone
- NTP multicast or unicast synchronization, powered over Ethernet (PoE) or mains
- MOBALine, MOBATIME serial code, impulse line, DCF, DCF-IMP (time code, DCF active), or IRIG-B, mains powered
- GPS signal
- RTC backup by means of supercapacitor (lithium battery on request)

NETWORK

- IPv4 and IPv6 support
- DHCPv4, DHCPv6 / manual configuration of the clock parameters or configuration via web interface
- DHCPv4, DHCPv6 private strings allow easy configuration of clock parameters when connected to LAN

ORDER KEY

1 FORMAT

Digit height	10:08	10:08:25	Reading distance
100 mm	100.4	100x.6	40–60 m
180 mm	180.4	180x.6	70–100 m
190 mm	190.4	190x.6	75–115 m
250 mm	250.4	250x.6	100–150 m
320 mm	320.4	320x.6	120–190 m
500 mm	500.4	500x.6	200–300 m

2 DISPLAY COLOR



3 INSTALLATION



WALL MOUNTING
N.N (single-sided)

CEILING SUSPENSION
N.S (single-sided)
D.S (double-sided)

WALL BRACKET MOUNTING
N.B (single-sided)
D.B (double-sided)

4 SYNCHRONIZATION

CODE	SYNCHRONIZATION	POWER SUPPLY
NTP	NTP	Mains
PoE	NTP ¹	PoE
PoE+	NTP ²	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	Mains
LGC	MOBALine / DCF / IRIG-B / (un)polarized 24 VDC pulses	Mains

¹ only DSC 100.4, with red / yellow display

² only DSC 100, 180.4 and 190.4, with red / yellow display

5 HOUSING COLOR



6 OPTIONS

CODE	OPTION
RS485	RS-485 interface
VDC	Power supply via 18–56 VDC
VDISP	Stromversorgung gemäss Anzeigefarbe
BAT	Lithium battery
REL	Internal relay
RP	Redundant power supply (PoE + 24 VDC)

7 ACCESSORIES

CODE	OPTION
IR	infrared remote control
RF/IR	long-range radio frequency/infrared remote control with 38 buttons
RF	long-range radio frequency remote control with 6 buttons (IP 54)
AD 650	DCF77 radio signal receiver
GNSS 4500	GNSS receiver including antenna
SK	keyboard for stopwatch control, 5m cable
SKH	stainless steel keyboard for clock and stopwatch control, 5m cable, handheld
SKF	stainless steel keyboard for clock and stopwatch control, flush mounting
SKW	stainless steel keyboard for clock and stopwatch control, wall mounting
TP 3m	temperature sensor, IP 66, 3m cable
TP 30m	temperature sensor, IP 66, 30m cable
TPH 1m	temperature and humidity sensor, IP 66, 1m cable
BRB10	big red button for stopwatch control
CB	Code Blue signal receiver, AC/DC input range 7–350 V
GPS-CE5	GPS extension cable, 5m
GPS-CE10	GPS extension cable, 10m
GPS-CE15	GPS extension cable, 15m
GPS-CE20	GPS extension cable, 20m

ORDER CODE

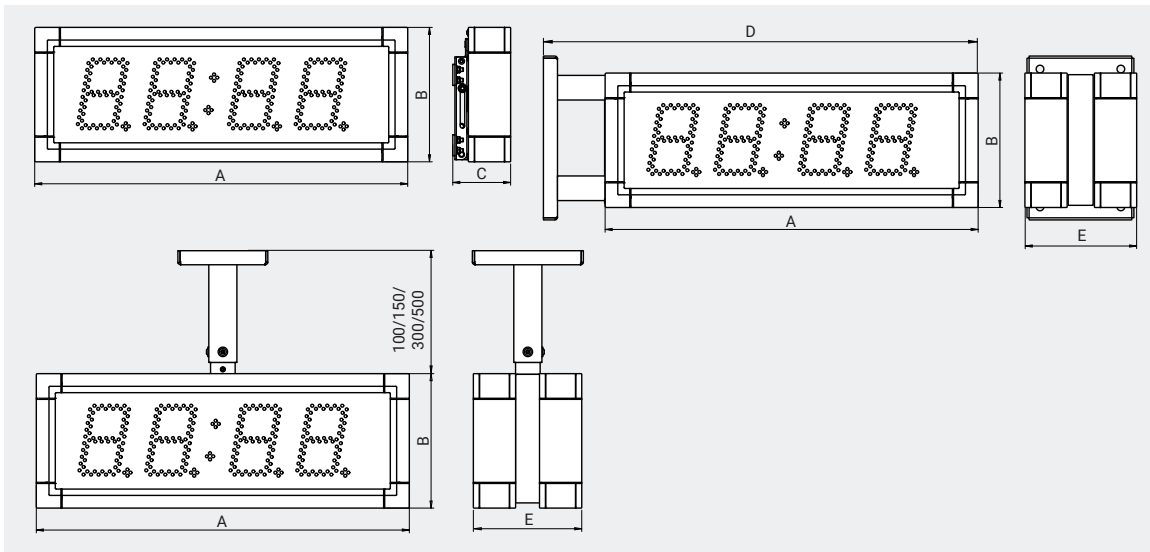
DSC . 1 . 2 . 3 . 4 . 5 . 6 . 7

Example: DSC.100.4.R.N.N.NTP.black

TECHNICAL DATA

DSC		100.4	100x.6	180.4	180x.6	190.4	190x.6	250.4	250x.6	320.4	320x.6	500.4	500x.6
Digit height (mm)		100	100	180	180	190	190	250	250	320	320	500	500
Display features		Time display in 12-hour or 24-hour format Alternating display of time, date, temperature ¹ (in C° or F°), air pressure ¹ and humidity ¹ Automatic or manual display brightness adjustment Stopwatch (count up to 24 hours, countdown from set value, display of time intervals, freezing of display...) Stopwatch operation via push buttons, IR remote control											
Material		Housing: aluminum Cover glass: tempered mineral glass with anti-reflective foil											
Power supply	Mains	Standard: 100 – 240 VAC, 50 – 60 Hz VDC (on request): 18 – 56 VDC (18 – 40 VAC)											
	PoE	IEEE 802.3 af-Class 3											
	PoE+	IEEE 802.3 af-Class 3	IEEE 802.3 at	-	IEEE 802.3 at								
Power consumption (VA)	SS	15	22	23	33	23	33	37	55	45	67	54	80
	DS	29	42	44	66	44	66	72	108	88	132	106	159
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: > 6 years											
Temperature precision		-25 to +85 °C: ±0.5 °C, -50 to +125 °C: ±2.0 °C											
Operating conditions		-25 to +60 °C (0 to 95% relative humidity, non-condensing)											
Degree of protection		IP 65											
Standards		2011/65/EU / 2014/30/EU / 2014/35/EU / EN 50121-4 / EN 55022 / EN 55024 / EN 60950-1											
Weight (kg)	SS (N.N/N.S)	5.5	7.5	10	13.5	10	13.5	17	24.5	23	32.5	53	75
	SS (N.B)	10.5	12.5	16.5	21	16.5	21	26.5	34	34	46.5	on request	
	DS (D.S)	15	18.5	24.5	32.5	24.5	32.5	41	55.5	54	75	on request	
	DS (D.B)	15.5	19	25	33	25	33	41.5	56	55	75.5	on request	
Dimensions (in mm, see below)	A	530	750	840	1220	840	1220	1250	1740	1500	2200	2200	3250
	B	191	191	260	260	260	260	350	350	430	430	640	640
	C	82	82	82	82	82	82	83	83	84	84	105	106
	D	620	840	930	1310	930	1310	1360	1850	1610	2310	on request	
	E	165	165	165	165	165	165	180	180	180	180	on request	

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



LE-800609.24 / 2023

*Have questions?
 We are happy to help.*

Moser-Baer AG | Spitalstrasse 7 | CH-3454 Sumiswald
 Tel. 034 432 46 46 | Fax 034 432 46 99
 info@mobatime.com | www.mobatime.com

