



Analogue NTP and PoE Clock



General

To distribute correct time to different users in a Local Area Network (LAN) the Network Time Protocol (NTP) is used. NTP is a part of the protocol family TCP/IP. Westerstrand analogue clocks type Ethernet LAN are operated and controlled by Time distributed in the Network.

Each clock has a unique IP address. The IP address, gateway, subnetmask and server IP address is set up via WEB-browser.

Technical information

When the movement has received and accepted the NTP signal, it will step forward to correct time by rapid impulses. In case the NTP would disappear, the built-in quartz crystal will take over control of correct time. Automatic feedback control of the hour hand at 12.00 and 00.00. Automatic feedback control of the minute hand each time it reaches 12-position. During a power failure the clock will the clock stop.

Technical data

Protocols supported:	SNTP version 3 and 4, MD5 authentication
NTP protocol modes:	Unicast client mode (point to point), support for DHCP option 42, Broadcast & Multicast mode (point to multipoint). Multicast group address 224.0.1.1
Other supported protocols:	HTTP, HTTPS, SNMP, SYSLOG
Transport protocol:	TCP/IP
Internet protocol:	IPv4, IPv6 ready
IP address assignment:	Dynamic, using DHCP, or fixed IP-address
Compatibility:	Ethernet version 2/IEEE 802.3af
Ethernet:	Supports 10/100BASE-T (RJ45) connections
Device Management:	Web-Based (requires web browser)
Power supply:	230VAC or PoE (Power over Ethernet) LED-Illumination always runs on 230VAC even if the clock is connected to PoE
Sizes:	Dia. 400, 600, 800 and 900mm.
Housing:	Aluminium, powder coated in RAL 850-M
Dial face:	White dial with either black numerals 1-12 (A-dial) or with black hour marks (H-dial).
Illumination:	Optional with or without LED illumination of the dial.
Hands:	Black hours- and minute hand. Red sweeping seconds hand in some versions.
Protection:	Flat protection glass of polycarbonate, 4mm.
Mounting:	Single sided or double sided including bracket for either wall mounting or standing ceiling installation. NOTE! Different ways to mount single sided 400mm clock than 600mm-900mm clocks. Different bracket for double sided 400mm clock than the bracket for 600mm-900mm clocks.
IP rating:	IP65
CE-approval EMC	Emission: EN 50121-4:2016, EN 61000-6-3:2007, EN55032:2015 and EN61000-6-4 (not PoE) Immunity: EN 50121-4:2016, EN 61000-6-2:2005, EN 61000-4-2, -3, -4, -5, -6, -11

Technical Specifications

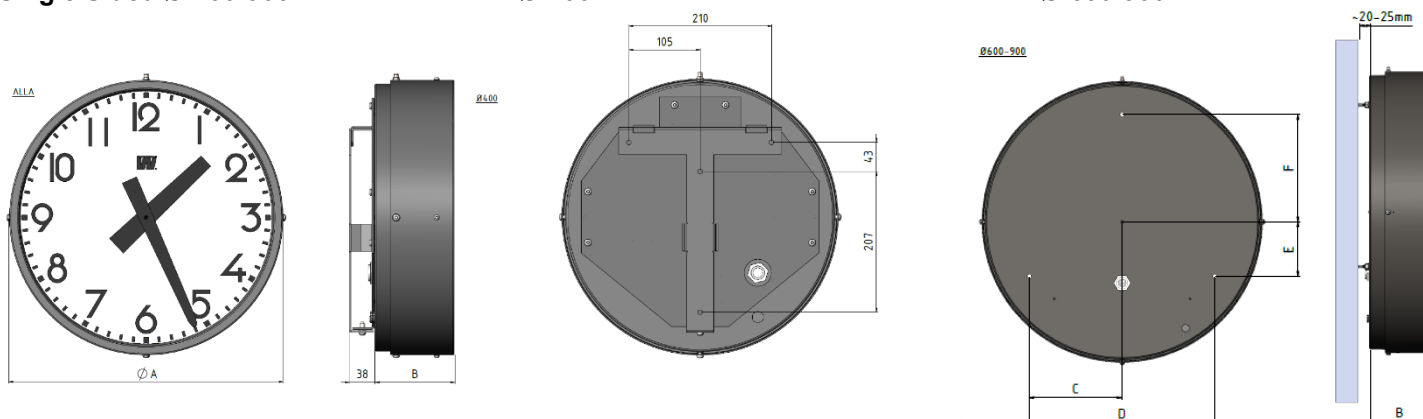
Size	Reading Distance	Seconds	Illum.	Weight Single/double	Dim Single sided (mm)							Double sided	
					A	B	C	D	E	F	G	H	I
Ø400	35m	No	No	7/10,5 Kgs	407	38	97	210	105	43	207	195	407
Ø400	35m	No	Yes	8/12 Kgs	407	38	118	210	105	43	207	195	407
Ø400	35m	Yes	No	7,5/11 Kgs	407	38	97	210	105	43	207	195	407
Ø400	35m	Yes	Yes	8,5/12,5 Kgs	407	38	118	210	105	43	207	195	407
Ø600	65m	No	No	9/13 Kgs	621	47	105	312	156	183	156	221	635
Ø600	65m	No	Yes	10/14,5 Kgs	621	47	130	312	156	183	156	221	635
Ø600	65m	Yes	No	9,5/14,5 Kgs	621	47	105	312	156	183	156	221	635
Ø600	65m	Yes	Yes	10,5/16 Kgs	621	47	130	312	156	183	156	221	635
Ø800	80m	No	No	X Kgs	X	47	130	X	X	X	X	X	X
Ø800	80m	No	Yes	X Kgs	X	47	130	X	X	X	X	X	X
Ø800	80m	Yes	No	X Kgs	X	47	130	X	X	X	X	X	X
Ø800	80m	Yes	Yes	X Kgs	X	47	130	X	X	X	X	X	X
Ø900	100m	No	No	14/23 Kgs	921	47	130	450	225	272	232	221	935
Ø900	100m	No	Yes	15,5/25 Kgs	921	47	130	450	225	272	232	221	935
Ø900	100m	Yes	No	14,5/25 Kgs	921	47	130	450	225	272	232	221	935
Ø900	100m	Yes	Yes	16/27 Kgs	921	47	130	450	225	272	232	221	935

Dimensions

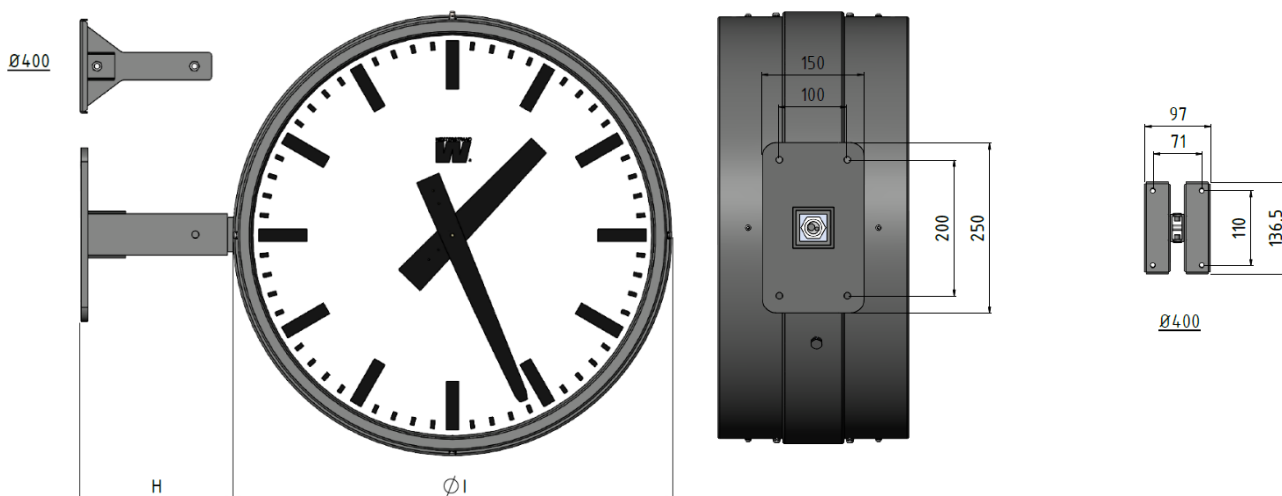
Single Sided Ø 400-900

Ø 400

Ø 600-900



Double sided Ø 400-900



We reserve the right to make changes at any time