



## Intelligent System

### Analogue Clocks of Ethernet NTP type



The Westerstrand analogue NTP-clocks retrieve the time from the local network NTP time server. With automatic time correction every minute during normal operation (configurable). Supervision and alarm via standard protocols. In case of power interrupt, the clock will temporarily stop, and will reset automatically when the power return. There are two alternative power supplies:

- 230VAC.
- PoE, Power over Ethernet, the RJ45 network connector combine power supply and data. A special switch with PoE output is needed.

#### Technical information

Configuration by a web browser or by telnet.  
Support for DHCP option 0042 for automatic configuration of NTP-server address.  
The type of time synchronizing is selectable between Unicast, Multicast or Broadcast.  
If the connection to the timeserver is lost, the clock will continue to run on the internal clock.  
When the connection to the time server is restored, the internal clock will be synchronized.  
The clock has automatic detection of the position of the hands.

#### In/outdoor with aluminum casing

Power supply: 230VAC or Power over Ethernet (PoE).  
Size: Diameter 400, 600 and 900mm.  
Casing: Dark grey aluminum (RAL 7037). Illumination, with or without internal LED- Illumination.  
Dial: Mat white with either black digits 1-12 or black hour signs.  
Hands: Black hour- and minute hands.  
Red seconds hand.  
Front cover: Convex acrylic protection cover.  
Single sided: Surface wall mounting.  
Double sided: With consol for wall or ceiling mounting.  
Motion of hands: Sweeping hour hand and stepping minute hand.  
Sweeping seconds hand.

Protocols supported: Network Time Protocol (NTP) ver. 1, 2, 3 and 4, SNTP ver. 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, Telnet, SNMP, SYSLOG  
Compatibility: IEEE 802.3af, Power over Ethernet (PoE).

EMC: 10/100 BASE-T RJ45. IPv4, IPv6  
EN 61000-6-3, EN 61000-6-2, EN 50121-4.