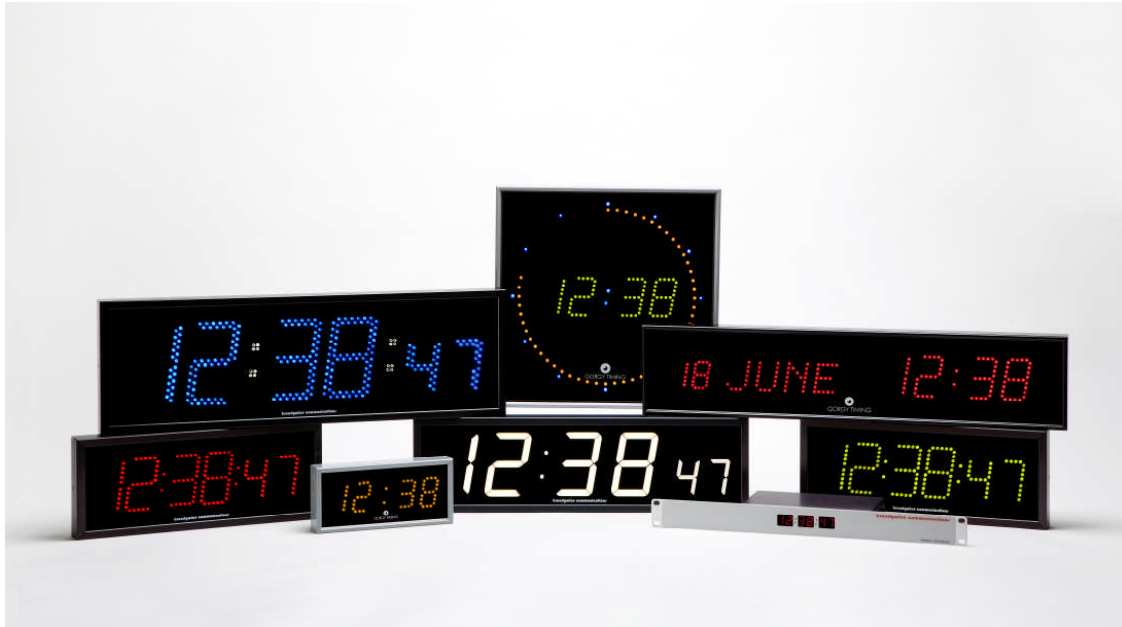


Network Time Displays



Features

- Digital Clock Automatically Synchronizes with NTP servers over Ethernet Network
- 0.5", 3.2" or 5" display sizes
- Remote network management
- Time Zone and Daylight Savings support
- Multiple colors
- Optional Network Time Server version with built-in GPS receiver
- Optional built-in IRIG B time code reader

Brandywine's family of Network Time Displays provides maintenance free display of time. They receive their time over a standard computer network, by interrogating a network time server.

The Network Time Displays use the Internet standard for time transmission, Network Time Protocol (NTP) to synchronize themselves automatically to a network time server.

Using existing standard network cabling and makes installation of the Network Time Displays simple and straightforward. No dedicated wiring is required when using the Ethernet as the synchronizing source.

Once connected to the network, the displays can automatically receive a network address using DHCP

protocol. Software utilities are provided that will automatically identify any Network Time Displays on the network, to allow configuration from a single PC. Individual displays have the capability of displaying their own address by means of a rear panel push button, which can also be used to set the display brightness.

Time can be displayed as either 12 hour or 24 hour time format. A built-in web browser allows the user to control which time source will be used, time zone and daylight savings set-up and display brightness. Full password protection for changing settings is provided on all units.

All displays include an RS232/422 broadcast time port, with user specified time message for synchronizing external equipment. All displays may also be

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synchronized from an RS232/422 ASCII serial source or optionally, an analog time code such as IRIG-B.

Network Time Displays are available in either 4 digit (HH:MM) or 6 digit configurations (HH:MM:ss).

Network Time Displays are available in a variety of configurations, including:

- A desktop/console mount unit with 0.5" characters
- A 1U 19" rack mount unit with 0.5" characters
- A wall/ceiling mounted unit with 3.2" character height
- A wall/ceiling mounted unit with 5.0" character height suitable for larger public spaces.

Specifications

Network Protocols

NTP SNTP DHCP TCP/IP UDP

Module Connections

Network: 10/100 baseT Ethernet

Connector: RJ45

Serial Output: RS232 or RS485 (link selected)

Baud rate: 1200-115200 baud

Connector: DB9

Synchronized Inputs

Standard

Ethernet: NTP

ASCII: Standard protocol below, others available on special order

Protocol: STX DD/MM/YY HH:MM:SS<CR>

Hardware: RS232/485 (link selected)

Baud rate: 2400, E, 7, 1

Optional Inputs:

GPS Receiver - 8 Channel C/A code

IRIG B Time Code Reader - Code: IRIG B122
Amplitude: 2V-3.5Vp-p

Overall Dimensions

	4 DIGIT	6 DIGIT
0.54 Console	N/A	1.85"x 7.44"x 4.75"
0.54" Rack Mount	N/A	1.75"x 19"x 4.5"
3.2" Wall Mount	6"x 10.5"x 2.62"	6"x 15"x 2.62"
5" Wall Mount	8"x 18.3"x 2.75"	8"x 25"x 2.75"
Power	95-265 VAC Universal	

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Ordering Information

Standard	4 DIGIT		6 DIGIT			
	3 2"	5"	3 2"	5"	Console	Rack
Red	061000051	061000068	061000005 3	061000007 0	061000008 0	061000086
Yellow	061000059	061000076	061000006 1	061000007 8	061000008 1	061000087
Blue	061000031	061000064	061000003 3	061000006 6	NA	NA
Green	061000055	061000072	061000005 7	061000007 4	061000008 2	061000088
WI GPS						
Red	061000052	061000069	061000005 4	061000007 1	061000008 3	061000089
Yellow	061000060	061000077	061000006 2	061000007 9	061000008 4	061000090
Blue	061000032	061000065	061000003 4	061000006 7	NA	NA
Green	061000056	061000073	061000005 8	061000007 5	061000008 5	061000091
WI RIG B						
Red	061000092	061000096	061000010 0	0610000104 0	061000010 8	061000111
Yellow	061000093	061000097	061000010 1	0610000105 1	061000010 9	061000112
Blue	061000094	061000098	061000010	0610000106	NA	NA

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Setup Time Display Password Reference Help

Setup

This tab contains all of the NTP to Serial basic setup functions. It will allow you to setup the NTP server address, network mask, client address and gateway address. For more information, please refer to the user manual.

System: Version: NTD V2.2 May 5 2004 08:33:43
Unit Location:

IP Address: DHCP: Enable Disable
Device IP Address:
Device Subnet Mask:
Device Gateway:

NTP Server: NTP IP Address: Restart control loop
Query Interval: seconds [\(Note\)](#)

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Setup Time Display Password Reference Help

Time Settings

There several settings that are associated with time. These settings are time zone, daylight saving time and the serial time output. Below are settings to help manage the time on the system.

Serial Output (T00): [Format Help](#) Format: %X02 0000:00 NH%M%8%G
Example: 0 00/00:00 15 20:03

Baud:
Data Bits:
Stop Bits:
Parity:

Time Zone Settings: Time Zone: Hour [\(Time Zone Help\)](#)

Daylight Saving Time: Automatically adjust clock for daylight saving changes:

Daylight Saving Time: (Advanced) Daylight saving offset (DST0): Hour [\(DST0 Help\)](#)
Daylight saving start: [Daylight Saving Help](#)
Add DST0 at 02:00 on the First Sun in Apr

Daylight saving stop: Subtract DST0 at 02:00 on the Last Sun in Oct