



Generate CSS Ethernet-based event code from an ASCII RS422 input with optional **CS5-LAN**.

SPECIFICATIONS

Standard Features

- > 1 in (2.5 cm) red LEDs
- > Supports CS5, CS3, IRIG-B1, NTP
- > Fully configurable via supplied Windiscovery software, Telnet or SSH
- > Configurable to time zone and daylight saving time offsets
- > Configuration is saved to non-volatile memory and survives power losses
- > Display time in 12 or 24 hr format – hh:mm:ss
- > Display hundredths of second
- > Adjustable brightness levels
- > Visibility: 50 feet (15 meters)
- > Dry contact relay option
- > PM indicator

Holdover Accuracy

- > With loss of power, device reverts to an internal battery-backed real-time clock chip with accuracy of ± 1 min/year or < 165 ms per day

Network Compatibility

- > Supports NTP, DHCPv4, DHCPv6 for automatic acquisition of network address, name servers, and timeserver configuration
- > Supported network protocols: Telnet/SSH
- > SNMP with custom MIB
- > IPv4, IPv6 compliant

Connectors

- > RJ45 for TCP/IP, IRIG-CS-3 or IRIG-CS-5246
- > BNC for IRIG-B1 or IRIG-CS-3
- > USB for configuration
- > IEC AC Power

Power

- > International 115/230, 50/60 Hz
- > Power consumption: < 15 W

Operating Parameters

- > Temperature: 0 to 60°C
- > Humidity: Up to 90% (non-condensing)

Physical

- > Black powder-coated steel chassis
- > Size: 10.7w x 1.72h x 4.34d in (27.2w x 4.37h x 11d cm)
- > Weight: 1 lb (0.45 kg)

Compliance

- > FCC
- > CE Marked
- > ROHS
- > ANSI

MASTERCLOCK, INC.

5-YEAR LIMITED PARTS & LABOR WARRANTY

MADE IN THE USA

phone (USA and Canada):
1-800-940-2248

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+1-636-724-3666

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online:
www.masterclock.com



Generate CS5 Ethernet-based event code from an ASCII RS422 input with optional **CS5-LAN**.



SPECIFICATIONS

Standard Features

- > 2.3 in (5.8 cm) LED digits available in red, green, blue, amber
- > Supports CS5, CS3, IRIG-B1, NTP
- > Fully configurable via supplied Windiscovery software, Telnet or SSH
- > Configurable to time zone and daylight saving time offsets
- > Configuration is saved to non-volatile memory and survives power losses
- > Display time in 12 or 24 hr format – hh:mm:ss
- > Display hundredths of second
- > Adjustable brightness levels
- > Visibility: 100 feet (30 meters)
- > Dry contact relay option
- > PM indicator

Holdover Accuracy

- > With loss of power, device reverts to an internal battery-backed real-time clock chip with accuracy of ± 1 min/year or < 165 ms per day

Network Compatibility

- > Supports NTP, DHCPv4, DHCPv6 for automatic acquisition of network address, name servers, and timeserver configuration
- > Supported network protocols: Telnet/SSH
- > SNMP with custom MIB
- > IPv4, IPv6 compliant

Connectors

- > RJ45 for TCP/IP, IRIG-CS-3 or IRIG-CS-5246
- > BNC for IRIG-B1 or IRIG-CS-3
- > USB for configuration
- > IEC AC Power

Power

- > International 115/230, 50/60 Hz
- > Power consumption < 15 W

Operating Parameters

- > Temperature: 0 to 60°C
- > Humidity: Up to 90% (non-condensing)

Physical

- > Black powder-coated steel chassis
- > Size: 22.25w x 3.6h x 2.25d in (56.5w x 9.14h x 5.7d cm)
- > Weight: 4.6 lb (2.08 kg)

Compliance

- > FCC
- > CE Marked
- > ROHS
- > ANSI

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Generate CS5 Ethernet-based event code from an ASCII RS422 input with optional **CS5-LAN**.



SPECIFICATIONS

Standard Features

- > 4 in (10.2 cm) LED digits available in red or blue
- > Supports CS5, CS3, IRIG-B1, NTP
- > Fully configurable via supplied Windiscovery software, Telnet or SSH
- > Configurable to time zone and daylight saving time offsets
- > Configuration is saved to non-volatile memory and survives power losses
- > Display time in 12 or 24 hr format – hh:mm:ss
- > Display hundredths of second
- > Adjustable brightness levels
- > Visibility: 200 feet (60 meters)
- > Dry contact relay option
- > PM indicator

Holdover Accuracy

- > With loss of power, device reverts to an internal battery-backed real-time clock chip with accuracy of ± 1 min/year or < 165 ms per day

Network Compatibility

- > Supports NTP, DHCPv4, DHCPv6 for automatic acquisition of network address, name servers, and timeserver configuration
- > Supported network protocols: Telnet/SSH
- > SNMP with custom MIB
- > IPv4, IPv6 compliant

Connectors

- > RJ45 for TCP/IP, IRIG-CS-3 or IRIG-CS-5246
- > BNC for IRIG-B1 or IRIG-CS-3
- > USB for configuration
- > IEC AC Power

Power

- > International 115/230, 50/60 Hz
- > Power consumption < 15 W

Operating Parameters

- > Temperature: 0 to 60°C
- > Humidity: Up to 90% (non-condensing)

Physical

- > Black powder-coated steel chassis
- > Size: 41.7w x 6.5h x 2.8d in (106w x 16.5h x 5.8d cm)
- > Weight: 8.17 lb (3.71 kg)

Compliance

- > FCC
- > CE Marked
- > ROHS
- > ANSI

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The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **NTDS16** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 1 in (2.5 cm) 6-digit LED display available in red, green, blue or amber
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display time & date or UTC & local time
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels
- Visibility: 50 feet (15 meters)
- Dry contact relay option
- PM indicator

Options

- Surface mount (desktop version)
- Rack mount (NTDS16-RM)



Specifications

Connectors

- Ethernet RJ45
- DC input
- USB for configuration
- IEC C5 A/C Power

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 8W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Surface mount (desktop version)
 - Size: 10.7w x 1.7h x 3.5d in (27.2w x 4.31h x 8.9d cm)
 - Weight: 1.0 lbs (0.45 kg)
- Rack-mount
 - Size: 16.9w x 1.7h x 3.5d in (43w x 4.31h x 8.9d cm)
 - Weight: 1.73 lb (0.78 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS19** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 1 in (2.5 cm) 9-digit LED display available in red, green, blue or amber
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss with three-digit day of year
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels
- Visibility: 50 feet (15 meters)
- Dry contact relay option
- PM indicator

Specifications

Connectors

- Ethernet RJ45
- DC input
- USB for configuration
- IEC C5 A/C Power

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Surface mount (desktop version)
 - Size: 10.9w x 1.75h x 4.5d in (27.64w x 4.5h x 11.4d cm)
 - Weight: 1.0 lbs (0.5 kg)
- Rack-mount
 - Size: 16.9w x 1.7h x 3.5d in (43w x 4.31h x 8.9d cm)
 - Weight: 1.73 lb (0.78 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI

Options

- Surface mount (desktop version)
- Rack mount (NTDS19-RM)





Masterclock's new time zone clocks offer flexibility beyond the competition's single enclosure options. This modular clock system offers fast installation using quick-release din rail, the option to add additional time zones, and easy replacement compared to other systems having 10+ zones in one enclosure. The clock's small foot print minimizes required wall space while providing a clean viewing distance with 2.3-inch (5.8 cm) numeric and alpha digits. Configuration options include 4- or 6-digit models, with a programmable alpha line on top or bottom of the display. The alpha line can be static or scroll 3 programmable messages with up to 300 characters each.



Features

- 2.3 in (5.8 cm) 4- or 6-digit time display with 8-digit alphanumeric display
- Alpha line can be on top or bottom
- LED colors available in red, green, blue, amber or white* (*time line only)
- Syncs to any NTP or SNTP source for accurate traceable time - time code input optional
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software provides easy configuration of network devices
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format
- 8-digit alpha line can be static or scroll up to 300 characters
- 3 programmable messages
- PM indicator
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Wall-mount bracket
- Din rail mountable

Specifications

Connectors

- RJ45 - 10/100MB Ethernet
- USB for configuration
- DC input (optional)
- BNC for time code input (optional)

Power

- Choice of - POE or DC (12-24 VDC)
- Power consumption < 10W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 17w x 7.25h x 1.8d in (43.2w x 18.4h x 4.6d cm)
Weight: 5.9 lbs (2.7 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



NTDS24-DF

NTP Driven Clocks



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS24-DF** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 2.3 in (5.8 cm) 4-digit LED display available in red, green, blue, amber, or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Configures to time zone and daylight saving time parameters
- Display time in 12 or 24 hr format - hh:mm
- Display date - mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Dry contact relay option
- PM indicator

Options

- Side wall-mount bracket

Specifications

Connectors

- Ethernet RJ45
- DC input
- USB for configuration

Power

- Choice of - POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 10.3w x 7h x 3.5d in (25.9w x 17.8h x 8.4d cm)
Weight: 4.0 lbs (1.8 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI





NTDS24

NTP Driven Clocks



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS24** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 2.3 in (5.8 cm) 6-digit LED display available in red, green, blue, amber or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included – provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format – hh:mm
- Display date – mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Wall-mount bracket
- Visibility: 100 feet (30 meters)
- Dry contact relay option
- PM indicator

Specifications

Connectors

- Ethernet RJ45
- DC input
- USB for configuration

Power

- Choice of – POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- Power consumption < 8W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 9.31w x 3.82h x 1.85d in (23.6w x 9.7h x 4.7d cm)
Weight: 2.0 lbs (0.9 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI

Options

- Tilt-wall bracket
- Flush-mount bracket
- Stainless steel case





The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS26-DF** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 2.3 in (5.8 cm) 6-digit LED display available in red, green, blue, amber or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight savings time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Dry contact relay option
- PM indicator

Options

- Side wall-mount bracket

Specifications

Connectors

- Ethernet RJ45
- DC input
- IEC A/C Power
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 15.25w x 7h x 3.5d in (38.7w x 18h x 9d cm)
Weight: 6 lbs (2.72 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS26** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 2.3 in (5.8 cm) 6-digit LED display available in red, green, blue, amber or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Configures to time zone and daylight saving time parameters
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Options

- Rack-mount (2U) bracket
- Tilt-wall bracket
- Flush-mount bracket
- Stainless steel case

Specifications

Connectors

- Ethernet RJ45
- DC input
- IEC A/C Power
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 16.9w x 3.5h x 2.3d in (42.9w x 8.9h x 5.9d cm)
Weight: 8.0 lbs (3.63 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



NTDS29

NTP Driven Clock



Features

- 1.8 in (4.6 cm) 9-digit LED display available in red
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss with three-digit day of year
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Options

- Tilt-wall bracket
- Rack-mount bracket (2U)

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Compliance

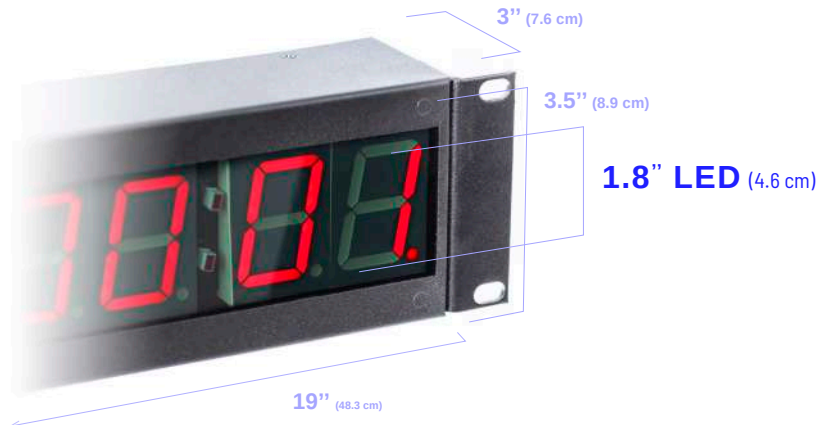
- FCC, ROHS, CE Marked, ANSI

Physical

- Black powder-coated steel chassis
- Size: 19w x 3.5h x 3d in (48.3w x 8.9h x 7.6d cm)
- Weight: 5.0 lbs (2.3 kg)



The optional RC600 is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks. Uses WinDiscovery software.



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NTDS44-DF

NTP Driven Clocks



The optional **RC600** (above) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **NTDS44-DF** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 4 in (10.2 cm) 4-digit LED display available in red, green, blue, amber or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12 or 24 hr format - hh:mm
- Display date - mm:dd
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 feet (60 meters)
- Dry contact relay option
- PM indicator

Options

- Side wall-mount bracket
- Stainless steel case



Specifications

Connectors

- Ethernet RJ45
- DC input
- USB for configuration

Power

- Choice of - POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- Power consumption < 8W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 15.75w x 9.5h x 3.5d in (40w x 24h x 9d cm)
Weight: 8.6 lbs (3.9 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI





The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS44** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 4 in (10.2 cm) 4-digit LED display available in red, green, blue, amber or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm
- Display date - mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 feet (60 meters)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Options

- Tilt-wall bracket
- Flush-mount bracket
- Stainless steel case

Specifications

Connectors

- Ethernet RJ45
- DC input
- USB for configuration

Power

- Choice of - POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- Power consumption < 8W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 16.3w x 6.9h x 2.3d in (41.4w x 17.5h x 5.8d cm)
Weight: 4.0 lbs (1.8 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI

NTDS46-12AL



The optional **RC600** (above) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks. Uses WinDiscovery software.

STANDARD FEATURES



- > 4 in (10.2 cm) 6-digit top display with 2.3 in (5.8 cm) 12-digit bottom alphanumeric display
- > Top/Bottom LED display available in red, green, blue, amber or white* (*numeric digits only)
- > Syncs to any NTP source for accurate traceable time
- > Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- > Configures to time zone and daylight saving time parameters
- > WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- > Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- > Configuration is saved to non-volatile memory and survives power losses
- > Password protection prevents unauthorized clock configuration tampering
- > Display time in 12- or 24-hr format – hh:mm:ss
- > Display date – mm:dd:yy, dd:mm:yy or yy:mm:dd – configurable
- > 3 programmable messages
- > Alpha line can be static or scrolling up to 300 characters
- > Adjustable brightness levels with auto-dimming option
- > Visibility: 200 feet (60 meters)
- > Wall-mount bracket
- > Dry contact relay option
- > PM indicator

OPTIONS

- > Stainless steel case
- > Flush-mount case



SPECIFICATIONS

Connectors

- > DC Input
- > IEC AC Power
- > USB for configuration

Power

- > Choice of – IEC AC or DC (24VDC)
- > International IEC AC 90-240v, 50/60 Hz
- > Power consumption > 15W

Operating Parameters

- > Temperature: 0 to 60°C
- > Humidity: Up to 90% (non-condensing)

Physical

- > Black powder-coated steel chassis
- > Size: 25.5w x 10.4h x 2.3d in (64.8w x 26.4h x 5.8d cm)
- > Weight: 11 lbs (5.0 kg)

Compliance

- > FCC, ROHS, CE Marked, ANSI

MASTERCLOCK, INC.

5-YEAR LIMITED PARTS & LABOR WARRANTY

MADE IN THE USA

phone (USA and Canada):
1-800-940-2248

phone (international):
+1-636-724-3666

email:
sales@masterclock.com

online:
www.masterclock.com



NTDS46-DF

NTP Driven Clocks



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS46-DF** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 4 in (10.2 cm), 6 digit LED display available in red, green, blue, amber or white
- Syncs to external or internal NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 ft (60 m)
- Dry contact relay option
- PM Indicator

Options

- Side wall-mount bracket
- Stainless steel case



Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

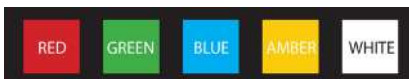
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 25w x 6.8h x 3.3d in (63.3w x 17.4h x 8.4d cm)
Weight: 11.2lbs (5.1 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (above) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **NTDS46** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 4 in (10.2 cm) 6-digit LED display available in red, green, blue, amber or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included – provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format – hh:mm:ss
- Display date – mm:dd:yy, dd:mm:yy or yy:mm:dd – configurable
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 ft (60 m)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Tilt-wall bracket
- Flush-mount bracket
- 2.3 inch (5.8 cm) LEDs seconds
- Stainless steel case

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of – IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 24.9w x 6.8h x 2.3d in (63.3w x 17.4h x 5.9d cm)
Weight: 10 lbs (4.5 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **NTDS49** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 4 in (10.2 cm) 9-digit LED display available in red or blue
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included – provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP / BOOTP / STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format – hh:mm:ss with three digit Day of Year
- Display date – mm:dd:yy, dd:mm:yy or yy:mm:dd – configurable
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 feet (60 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Tilt-wall bracket

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of – IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

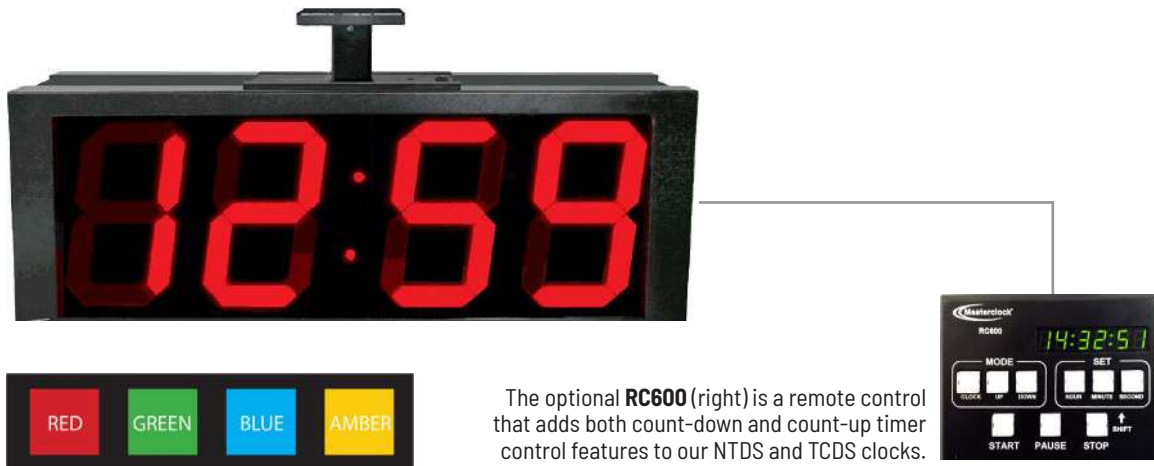
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 42w x 6.5h x 2.3d in (106.7w x 16.5h x 5.8d cm)
Weight: 9.0 lbs (4.0 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **NTDS84-DF** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 7 in (18 cm) 4-digit LED display available in red, green, blue or amber
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP/ BOOTP/STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm
- Display date - mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 350 feet (100 meters)
- Dry contact relay option
- PM Indicator

Options

- Side wall-mount bracket

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 26w x 10h x 4.5d in (66w x 25.4h x 11.4d cm)
Weight: 11.7 lbs (5.3 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **NTDS84** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 7 in (18 cm) 4-digit LED display available in red, green, blue, or amber
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP/BOOTP/STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm
- Display date - mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 350 feet (100 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Tilt-wall bracket

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 23.5w x 9.75h x 2.8d in (60w x 25h x 7d cm)
Weight: 8.0 lbs (3.6 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS86-DF** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 7 in (18 cm) 6-digit LED display available in red, green, blue or amber
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP/BOOTP/STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12 or 24 hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 350 feet (100 meters)
- Dry contact relay option
- PM Indicator

Options

- Side wall-mount bracket

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- USB for configuration

Power

- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

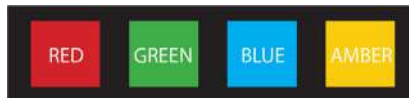
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 38w x 10h x 4.5d in (96.5w x 25.4h x 11.4d cm)
Weight: 20.0 lbs (9.1 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS86** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 7 in (18 cm) 6-digit LED display available in red, green, blue or amber
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP/ BOOTP/STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 350 feet (100 meters)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Options

- Tilt-wall bracket
- Stainless steel case

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 37.3w x 9.75h x 2.63d in (94.7w x 24.8h x 6.68d cm)
Weight: 12.0 lbs (5.4 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **NTDS112** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 1 in (2.5 cm) 12-digit LED display colors available in red, green, blue or amber
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP/BOOTP/STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Display time & date or UTC & local time
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels
- Visibility: 50 feet (15 meters)
- Dry contact relay option
- PM indicator

Options

- Surface mount (desktop version)
- Rack mount (NTDS112-RM)

Specifications

Connectors

- Ethernet RJ45
- DC input
- USB for configuration
- IEC A/C Power

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 8W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Surface mount (desktop version)
Size: 17w x 1.75h x 4.5d in (43.2w x 4.5h x 11.4d cm)
Weight: 2.0 lbs (0.9 kg)
- Rack-mount
Size: 16.9w x 1.7h x 3.5d in (43w x 4.31h x 8.9d cm)
Weight: 1.73 lb (0.78 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI

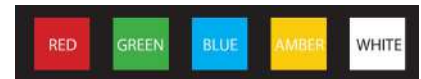


NTDS4626-3AL

NTP Driven Clocks



The optional **RC600** (left) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS4626-3AL** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 4 in (10.2 cm) 6-digits on top row and 2.3 inch (5.8 cm) 6-digits on bottom row with 2.3 in (5.8 cm) 3-digit alphanumeric display LED display
- Top/Bottom LED display available in red, green, blue, amber or white* (*numeric digits only)
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP/BOOTP/STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Dual time display
- Alpha-numeric characters available in : English, Spanish, French, German, Russian, Italian, Portuguese, Slovenian, and Dutch
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 feet (60 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 25.5w x 10.4h x 2.3d in (64.8w x 26.4h x 5.8d cm)
Weight: 11 lbs (5.0 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI

Options

- Stainless steel case
- Flush-mount case



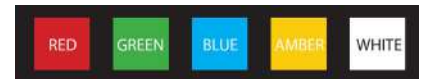


NTDS4626

NTP Driven Clocks



The optional **RC600** (left) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **NTDS4626** digital clock syncs to any NTP (Network Time Protocol) source for accurate traceable time. The unit configures to time zone and daylight savings time parameters and can be powered via PoE. WinDiscovery software is included.

Features

- 4 in (10.2 cm) 6-digits on the top row and 2.3 inch (5.8 cm) 6-digits on the bottom row - LED display available in red, green, blue, amber or white
- Syncs to any NTP or SNTP source for accurate traceable time
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks and generators attached to network
- Fully configurable network settings, including DHCP/ BOOTP/STATIC IP
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 feet (60 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Stainless steel case
- Flush-mount case



Specifications

Connectors

- Ethernet RJ45
- IEC AC Power
- DC input
- USB for configuration

Power

- Choice of - IEC AC, POE (Power over Ethernet IEEE802.3af) or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 25.5w x 10.4h x 2.3d in (64.8w x 26.4h x 5.8d cm)
Weight: 11 lbs (5.0 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI





The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **TCDS16** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 1-in (2.5 cm) 6-digit LED display available in red, green, blue or amber
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clock
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display time & date or UTC & local time
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels
- Visibility: 50 feet (15 meters)
- Dry contact relay option
- PM indicator

Options

- Surface mount (desktop version)
- Rack mount (TCDS16-RM)



Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC C5 A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption: < 6W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Surface mount (desktop version)
 - Size: 10.7w x 1.7h x 3.5d in (27.2w x 4.31h x 8.9d cm)
 - Weight: 1.0 lbs (0.45 kg)
- Rack-mount
 - Size: 16.9w x 1.7h x 3.5d in (43w x 4.31h x 8.9d cm)
 - Weight: 1.73 lb (0.78 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **TCDS19** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 1-in (2.5 cm) 9-digit LED display available in red, green, blue or amber
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss with three-digit day of year
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels
- Visibility: 50 feet (15 meters)
- Dry contact relay option
- PM indicator

Options

- Surface mount (desktop version)
- Rack mount (TCDS19-RM)



Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female DC power plug
- IEC C5 A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption: < 15W

Operating Parameters

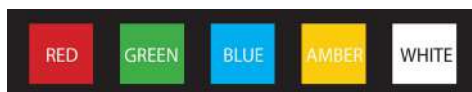
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Surface mount (desktop version)
 - Size: 10.9w x 1.75h x 4.5d in (27.64w x 4.5h x 11.4d cm)
 - Weight: 1.0 lbs (0.5 kg)
- Rack-mount
 - Size: 16.9w x 1.7h x 3.5d in (43w x 4.31h x 8.9d cm)
 - Weight: 1.73 lb (0.78 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **TCDS24** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 2.3 inch (5.8 cm) 4-digit LED display available in red, green, blue, amber or white
- Syncs to IRIG B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Options

- Wall-mount bracket

Specifications

Connectors

- BNC female
- 2.1 mm female power plug

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 5W

Operating Parameters

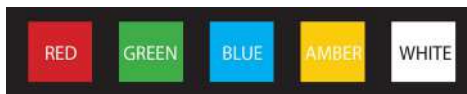
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Surface mount (desktop version)
Size: 10.1w x 3.8h x 1.75d in (25.7w x 9.7h x 4.5dcm)
Weight: 2.0 lbs (0.9 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **TCDS26-DF** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 2.3-in (5.68 cm), 6-digit LEDs available in red, green, blue, amber or white
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Custom colors and logos available (special orders)
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Dry contact relay option
- PM indicator

Options

- Side wall-mount bracket

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC Std A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption <15W

Operating Parameters

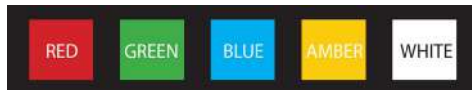
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 15.25w x 7h x 3.5d in (38.7w x 18h x 9d cm)
Weight: 6 lbs (2.72 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **TCDS26** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 2.3-in (5.8 cm) 6-digit LED display available in red, green, blue, amber or white
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Options

- Rack-mount (2U) bracket
- Tilt-wall bracket
- Flush-mount bracket

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC Std A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption <15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 17w x 3.5h x 3d in (43.2w x 8.9h x 7.6d cm)
Weight: 8.0 lbs (3.63 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The **TCDS29** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 1.8-in (4.6 cm) 9-digit LED display available in red
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss with three-digit day of year
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 100 feet (30 meters)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Options

- Tilt-wall bracket
- Rack-mount bracket (2U)

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC Std A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption <15W

Operating Parameters

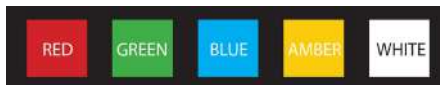
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 19w x 3.5h x 3d in (48.3w x 8.9h x 7.6d cm)
Weight: 5.0 lbs (2.3 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS

The **TCDS44** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 4 in (10.2 cm) 4-digit LED – display colors available in red, green, blue, amber or white
- IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss with three digit Day of Year
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 feet (60 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Wall-mount bracket

Specifications

Connectors

- BNC female
- DC input

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 10W

Operating Parameters

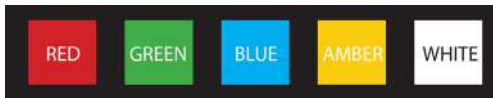
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Size: 16.3w x 6.9h x 2.3d in (41.4w x 17.5h x 5.8d cm)
- Weight: 4 lbs (1.8 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (above) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **TCDS46-DF** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 4-in (10.2 cm), 6-digit LED display available in red, green, blue, amber or white
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 ft (60 m)
- Dry contact relay option
- PM Indicator

Options

- Side wall-mount bracket



Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC Std A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

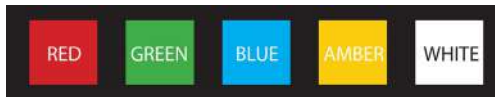
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 25w x 6.8h x 3.3d in (63.3w x 17.4h x 8.4d cm)
Weight: 11.2lbs (5.1 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (above) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **TCDS46** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 4-in (10.2 cm) 6-digit LED display available in red, green, blue, amber or white
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 ft (60 m)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Tilt-wall bracket
- Flush-mount bracket
- 2.3-in (5.8 cm) LEDs seconds

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Size: 25w x 7h x 2.1d in (63.5w x 17.8h x 5.3d cm)
- Weight: 10 lbs (4.5 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **TCDS49** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 4-in (10.2 cm) 9-digit LED display available in red or blue
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss with three digit Day of Year
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 200 feet (60 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Tilt-wall bracket

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC Std A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

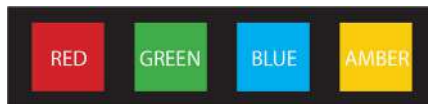
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 42w x 6.5h x 2.3d in (106.7w x 16.5h x 5.8d cm)
Weight: 9.0 lbs (4.0 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **TCDS84** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 7-in (18 cm) 4-digit LED display available in red, green, blue, or amber
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm
- Display date - mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 350 feet (100 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Tilt-wall bracket

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC Std A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 30W

Operating Parameters

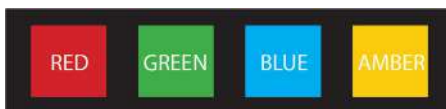
- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 23.5w x 9.75h x 2.8d in (60w x 25h x 7d cm)
Weight: 8.0 lbs (3.6 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **TCDS86** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 7-in (18 cm) 6-digit LED display available in red, green, blue, or amber
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels with auto-dimming option
- Visibility: 350 feet (100 meters)
- Wall-mount bracket
- Dry contact relay option
- PM Indicator

Options

- Tilt-wall bracket

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC Std A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 30W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
Size: 37.3w x 9.75h x 2.63d in (94.7w x 24.8h x 6.68d cm)
Weight: 12.0 lbs (5.4 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



The optional **RC600** (right) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.

The **TCDS112** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 1-in (2.5 cm) 12-digit LED display available in red, green, blue or amber
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd
- Configurable to alternate showing date and time automatically
- Adjustable brightness levels
- Visibility: 50 feet (15 meters)
- Dry contact relay option
- PM indicator

Options

- Surface mount (desktop version)
- Rack-mount (TCDS112-RM)

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- DC input - 2.1 mm female
- IEC C5 A/C Power

Power

- Choice of - IEC AC or DC (24 VDC)
- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 8W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Black powder-coated steel chassis
- Surface mount (desktop version)
 - Size: 17w x 1.75h x 4.5d in (43.2w x 4.5h x 11.4d cm)
 - Weight: 2.0 lbs (0.9 kg)
- Rack-mount
 - Size: 16.9w x 1.7h x 3.5d in (43w x 4.31h x 8.9d cm)
 - Weight: 1.73 lb (0.78 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI



TCDS8646

Time Code Driven Clocks



The optional **RC600** (left) is a remote control that adds both count-down and count-up timer control features to our NTDS and TCDS clocks.



The **TCDS8646** digital clock syncs to IRIG-B, SMPTE and EBU time codes for accurate traceable time. Each unit configures to time zone and daylight savings time parameters. WinDiscovery software is included.

Features

- 7-in (18 cm) 6-digit LED top display with 4 inch (10.2 cm) 6-digit bottom display available in red, green, blue or amber
- Reads IRIG-B, SMPTE 12M, 309M, 24/25/30 fps, 29.97 drop frame
- Retains time and date during loss of power and/or reference using a battery backed real-time clock (RTC) chip and maintenance-free rechargeable battery
- Configures to time zone and daylight saving time parameters
- WinDiscovery software utility included - provides easy configuration of clocks
- Configuration is saved to non-volatile memory and survives power losses
- Password protection prevents unauthorized clock configuration tampering
- Display time in 12- or 24-hr format - hh:mm:ss
- Display date - mm:dd:yy, dd:mm:yy or yy:mm:dd - configurable
- Adjustable brightness levels with auto-dimming option
- Visibility: 350 ft (100 m)
- Wall-mount bracket
- Dry contact relay option
- PM indicator

Specifications

Connectors

- BNC female
- 3-pin terminal block
- USB for configuration
- IEC Std A/C Power

Power

- International IEC AC 90-240v, 50/60 Hz
- Power consumption < 15W

Operating Parameters

- Temperature: 0 to 60°C
- Humidity: Up to 90% (non-condensing)

Physical

- Stainless steel chassis
Size: 39.4w x 15h x 2.63d in (100w x 38h x 6.7d cm)
Weight: 24 lbs (11 kg)

Compliance

- FCC, ROHS, CE Marked, ANSI