

# Operation manual for the DC-Webserver-Clocks-1

Scan the QR code below to watch a demonstration video!



## Operation manual for the DC-Webserver-Clocks-1



The DC-Webserver-Clocks-1 allows easy and efficient monitoring of all the DC-Digital network clocks\* on your network. With this device, you can see each clock's network settings (and make changes to said settings), the time each clock currently displays, the last time it attempted to query the time from an NTP server, and whether that attempt was successful or not.

The DC-Webserver-Clocks-1 kit contains:

- (1) DC-Webserver-Clocks-1 unit
- (1) DC-12-700 power supply
- (1) 7ft CAT5 network patch cable

\* Depending on the age and generation of your DC-Digital network clock, you may need to send the clocks in to us for a hardware update.

Please contact us for details and to determine if your clocks need this update: 937-746-9750

### Connections:



On the back of the DC-Webserver-Clocks-1 you will find connections for the Ethernet and the power.

Please use the included wall adapter for power (12V @ 700mA).

### Operation:



Front view of the DC-Webserver-Clocks-1. The green led indicates power to the unit.

Operation: (Continued)

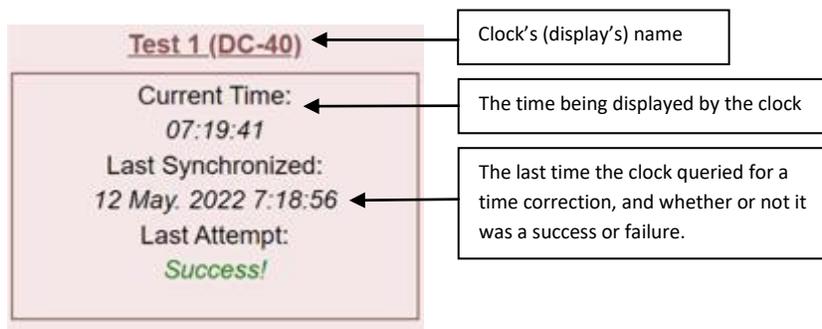
- Apply power to the server – the green led will light to show the web server is powered on.
- Determine the IP address of the DC-Webserver-Clocks-1. There are several ways to do this – please refer to your IT professional for help in doing this. The server will have its MAC address printed on a label attached to the bottom of the enclosure.

**DC-Webserver-Clocks-1 Home Page**

**DC-Digital** Home | [System Setup](#) | [Network Settings](#)

<u>Test 1 (DC-40)</u>	<u>Test 2 (DC-40)</u>	<u>Test 3 (DC-40)</u>	<u>Test 4 (DC-25)</u>
Current Time: 07:19:41 Last Synchronized: 12 May, 2022 7:18:56 Last Attempt: <i>Success!</i>	Current Time: 07:19:41 Last Synchronized: 12 May, 2022 7:19:28 Last Attempt: <i>Success!</i>	Current Time: 07:19:41 Last Synchronized: 12 May, 2022 7:19:15 Last Attempt: <i>Success!</i>	Current Time: 07:19:40 Last Synchronized: 12 May, 2022 7:19:14 Last Attempt: <i>Success!</i>
<u>Test 5 (DC-25)</u>	<u>Test 6 (DC-25)</u>	<u>Test 7 (DC-40)</u>	<u>Test 8 (DC-40)</u>
Current Time: 07:19:40 Last Synchronized: 12 May, 2022 7:19:26 Last Attempt: <i>Success!</i>	Current Time: 07:19:40 Last Synchronized: 12 May, 2022 7:19:14 Last Attempt: <i>Success!</i>	Current Time: 07:19:41 Last Synchronized: 12 May, 2022 7:19:11 Last Attempt: <i>Success!</i>	Current Time: 07:19:41 Last Synchronized: 12 May, 2022 7:19:12 Last Attempt: <i>Success!</i>

- This particular web server can display up to 50 network clocks. The example above displays 8



**Test 1 (DC-40)** ← Clock's (display's) name

Current Time: 07:19:41 ← The time being displayed by the clock

Last Synchronized: 12 May, 2022 7:18:56 ← The last time the clock queried for a time correction, and whether or not it was a success or failure.

Last Attempt: *Success!*

- If you click anywhere on that clock's "box", it will link you to that specific clock's information page where you can view the information regarding the clock's settings and make changes if necessary.



## DC-Webserver-Clocks-1 Network Settings:

**DC-Digital** Home | System Setup | Network Settings

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### User Name and Password

User Name:

Password:

Repeat Password:

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### Network Configuration

Device Name:

Addressing mode:  Selecting DHCP will override IP settings below.

Device IP Address:

Device Subnet Mask:

Device Gateway:

DNS Server:

- The network settings tab references the network settings for the DC-Webserver-Clocks-1.
  - **User Name and Password**
    - The user name and password are needed to log into the web server to make any changes.
      - Default User Name: username (all lower case)
      - Default Password: password (all lower case)
  - **Network Configuration**
    -  These fields should only be changed by someone familiar with your network and your network's settings. Changing these values without this knowledge may result in rendering this web server inoperative.

### DC-Webserver-Clocks-1 Clock Home:

- If you click on any of the active clock boxes, it will take you to the **Clock's Home Page**. This page will display information for that specific clock:
- This page will only display the information. Changes can be made on the next two pages.
  - **NTP Server Information**
    - NTP Server Address: The address in which this clock queries its time correction.
    - Last Synchronized: The timestamp for the last synchronization attempt.
    - Last Synchronization Attempt: Either success or failure.
    - Synchronization Interval: How often this clock attempts a query.
  - **Network Information**
    - Network Configuration: Either DHCP or Static (regarding the specific clock).
    - Device Name: The name given to this specific clock.
    - MAC Address: The MAC address for this specific clock.
    - Device IP Address: This specific clock's IP address.
    - Device Subnet Mask: This specific clock's subnet mask.
    - Gateway IP Address: This specific clock's gateway IP.
    - DNS IP Address: This specific clock's DNS IP.
  - **Time Information**
    - Hour Format: Either 12 hour or 24 hour format.
    - Current Time Zone: The current time zone this specific clock is set to display.
    - Current Local Offset: This specific clock's offset in relation to UTC (or Zulu) time.

### DC-Webserver-Clocks-1 Clock Configure Settings:

- This tab will allow changes to be made to the clock settings.
  - **NTP Server Settings**
    - NTP Server Address: The address in which this clock queries its time correction.
    - Update Interval: How often this clock attempts a query. Range 1-1800 minutes. Default is 1 minute.
  - **Time Settings**
    - Hour Format: Either 12 hour or 24 hour format. Default is 12 hour.
    - Time Zone: Use the drop down menu to select one of the preset North American time zones, or select "other" and enter the rules in the next field.
    - Time Zone Rule: Contact DC-Digital with the time zone you are wanting to display and we will provide you with the rule definition.
- Be sure to click the "Change Configuration" button to apply the changes made!

**DC-Webserver-Clocks-1 Clock Network Settings:**

- This page will allow changes to be made to the clock's network settings.
- **User Name and Password**
    - User Name: The user name needed to login to the clock's configuration.
    - Password: The password needed to login to the clock's configuration.
      - Default User Name: username (all lower case)
      - Default Password: password (all lower case)
    - Don't forget to click on the "Change Password" button to apply the changes.
  - **Network Configuration**
    -  These fields should only be changed by someone familiar with your network and your network's settings. Changing these values without this knowledge may result in rendering this clock inoperative.
    - Don't forget to click on the "Change Configuration" button to apply the changes.

**Have questions? Feel free to contact us!**

**Phone: 937-746-9750**

**Email: [info@dc-digital.com](mailto:info@dc-digital.com)**

**Web: [www.dc-digital.com](http://www.dc-digital.com)**

**Thank you for choosing DC-Digital for your timing needs.**