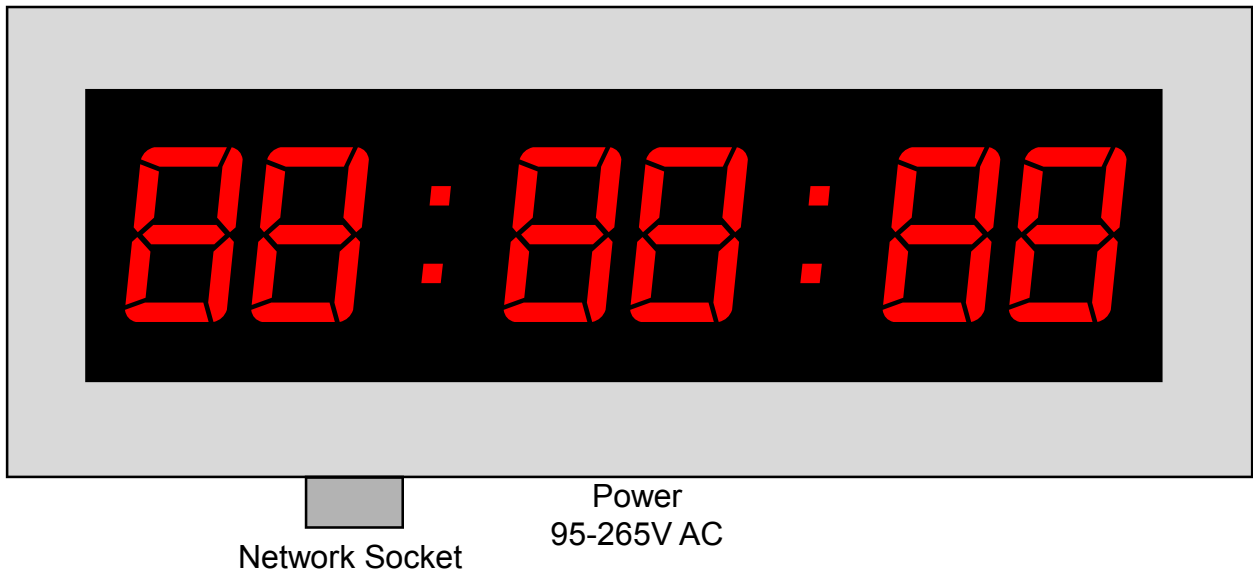


Special Function Manual Addendum

Description: Inclusion of NTP time synchronisation into Fusion clock display

Date: 20 December 2021

Prepared by: Graham Laming



Documents: You will need to refer to the following documents which we supply as printed copies with the display.

They are also available for you to download.

1. Fusion clock display manual

www.london-electronics.com/manuals/FusionH_F22.pdf

2. Network module X401, providing daily sync. at 02:30

www.london-electronics.com/manuals/x-400_users_manual.pdf

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Description:

The Fusion large-digit clock display receives a contact-closure synchronising pulse on terminals 7 and 8, at 02:30 am every day, from Relay-1 of the X401 network module, which is included within the enclosure.

This pulse keeps the clock accurate from day to day and also applies summer and winter time corrections, when needed.

The Fusion large-digit clock display includes a battery-backed real time clock, so if power is lost, correct time will be restored as soon as power returns to the display. You do not need to wait until 02:30 for time to be restored.

This also provides backup in case the network becomes unavailable.

Accuracy specifications during non-synchronised periods are available in the Fusion manual.

Network configuration:

You will need to configure the X401 internal module to match your network configuration. We explain where to find the information to achieve this, in the following pages.

You do not need to open the enclosure if power has already been connected to the display.

Plug your network cable into the socket in an environment where it is safe and permitted to do so.

The default user name is **admin**

The default password is **webrelay**

First, please refer to page 47 to 52 of the X-400 users manual in order to access the module with your PC.

Next, please see page 53 and page 55 to apply your network settings to the module.

Now you can configure the Date and Time settings according to page 69.

We suggest:

Set:	Sync with NTP server
NTP Host name:	0.europe.pool.ntp.org
NTP Sync Interval:	Daily
Sync on powerup:	Yes
UTC offset	To suit your time zone. In UK, we set 0:00

Daylight Savings

Enable:	Yes
Start Date:	Last Sunday March (for UK)
End date:	Last Sunday October (for UK)

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Notes:

Fusion large display must have code H0034 installed.

This sets time to 02:30 on receipt of contact closure between terminals 7 and 8