GPS CLOCK
3x3 P5 LED MODULE
MANUAL V1.2

Provided by Alex Kaledinov

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DESCRIPTION and PARAMETERS:

The CLOCK gets current date and time from GPS-Satellite and automatically renews it every 1 second.

CLOCK Parameters:

Clock Dimensions:	487mm(H) x 960mm(W) x 140mm(D)
LED Module Quantity:	9 pcs
Mounting Type:	Bolts or Screws
Voltage:	220-230VAC
Power Consumption:	4.5A max
Screen Resolution:	192px(W) x 96px(H)
Color mode:	RGB 1-bit mode

LED Module Parameters:

Module Type:	Outdoor P5 SMD2525 5VDC 75W
Module Dimension:	320mm(L) x 160mm(H) x 25mm(D)
Module Resolution:	64px(L) x 32px(H)
Pixel Pitch:	5mm
Scan Rate:	1/8 Scan
Module ICs:	ICN2012, ICN2037BP, MW245B
Brightness:	6000 cd/m2
Working Temperature:	-20~+60 ºC
Working Humidity:	10%~90% RH
Protection:	Water-Resistant
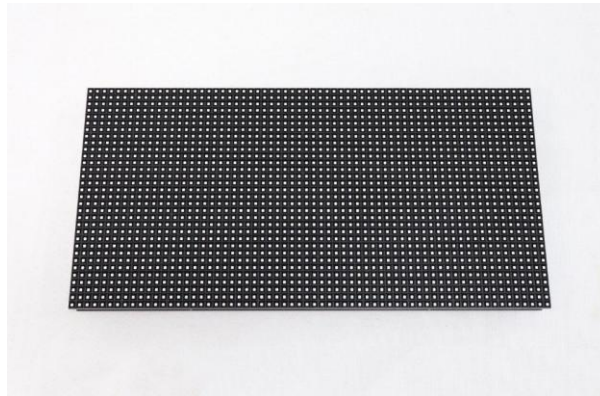
GPS Antenna Parameters:

Direction:	Omni-Directional
Mounting:	Magnetic base
Cable Length:	3 meters
Connector type:	SMA
Frequency:	1575.42MHz
Voltage:	3-5VDC
Current:	20mA Max
Resistance:	50Ω

Power Supply Parameters for LED:

Brand:	Mean Well
Model:	LRS-350-5
Voltage:	5V
Current:	60A

Power Supply Parameters for MCU:

Brand:	Mean Well
Model:	LRS-35-5
Voltage:	5V
Current:	7A

SCREEN and FONTS:

23:35
09.08.2024
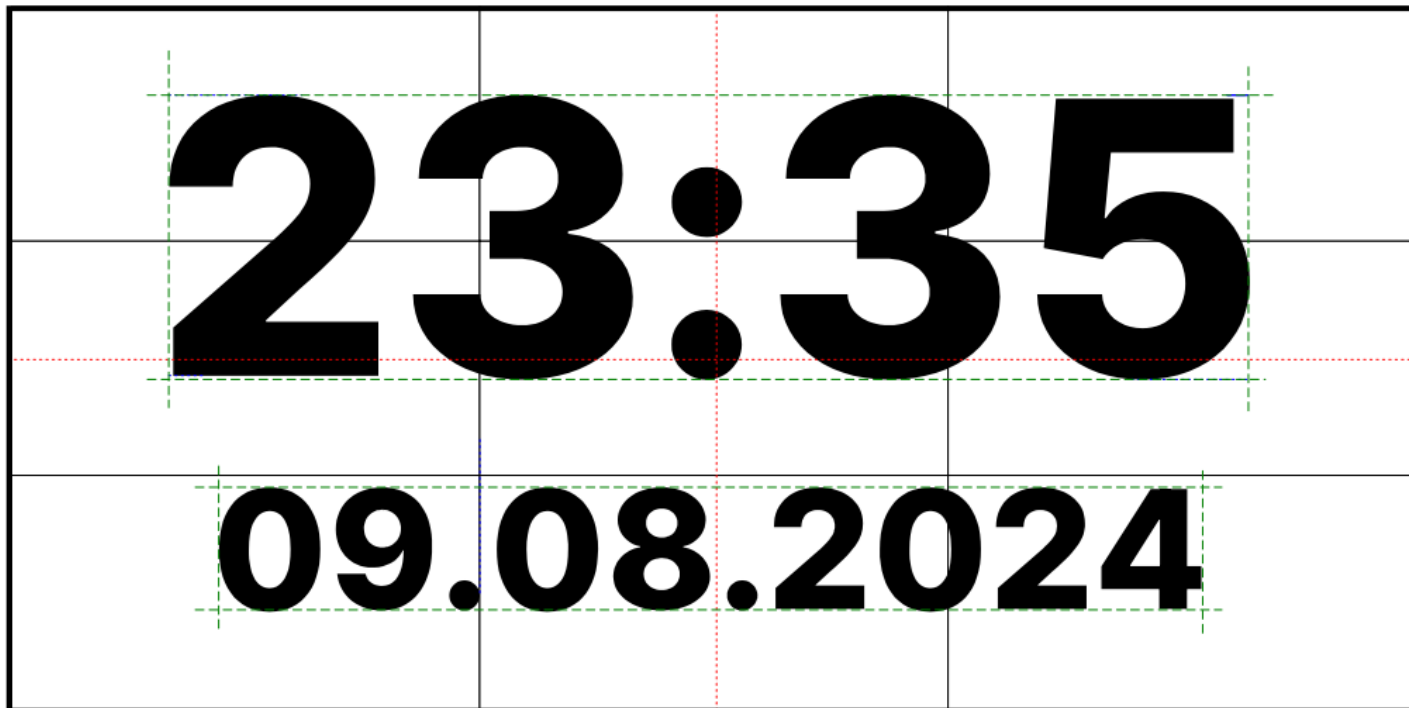
BACKSIDE PHOTO:

BACKSIDE ASSEMBLY:
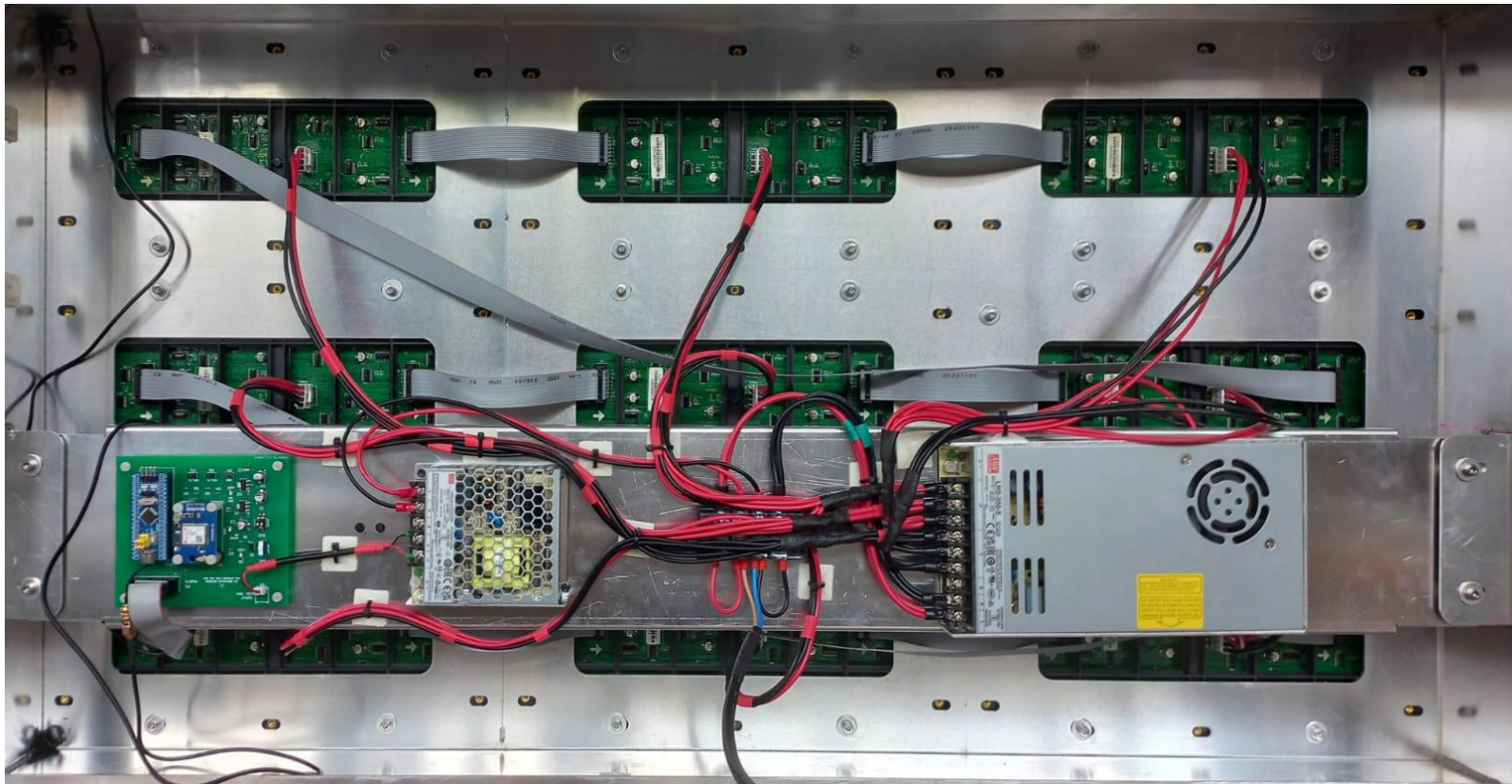
WIRING AND CONNECTIONS:

ANTENNA

CLOCK

220VAC
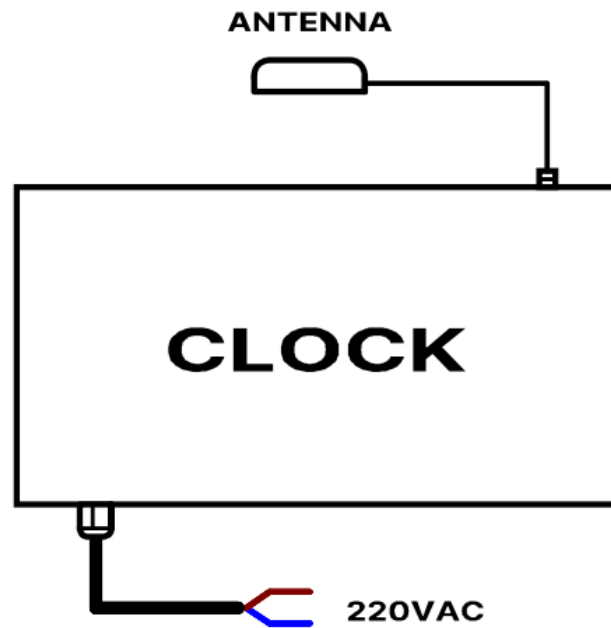
CORRECT ANTENNA INSTALLATION:
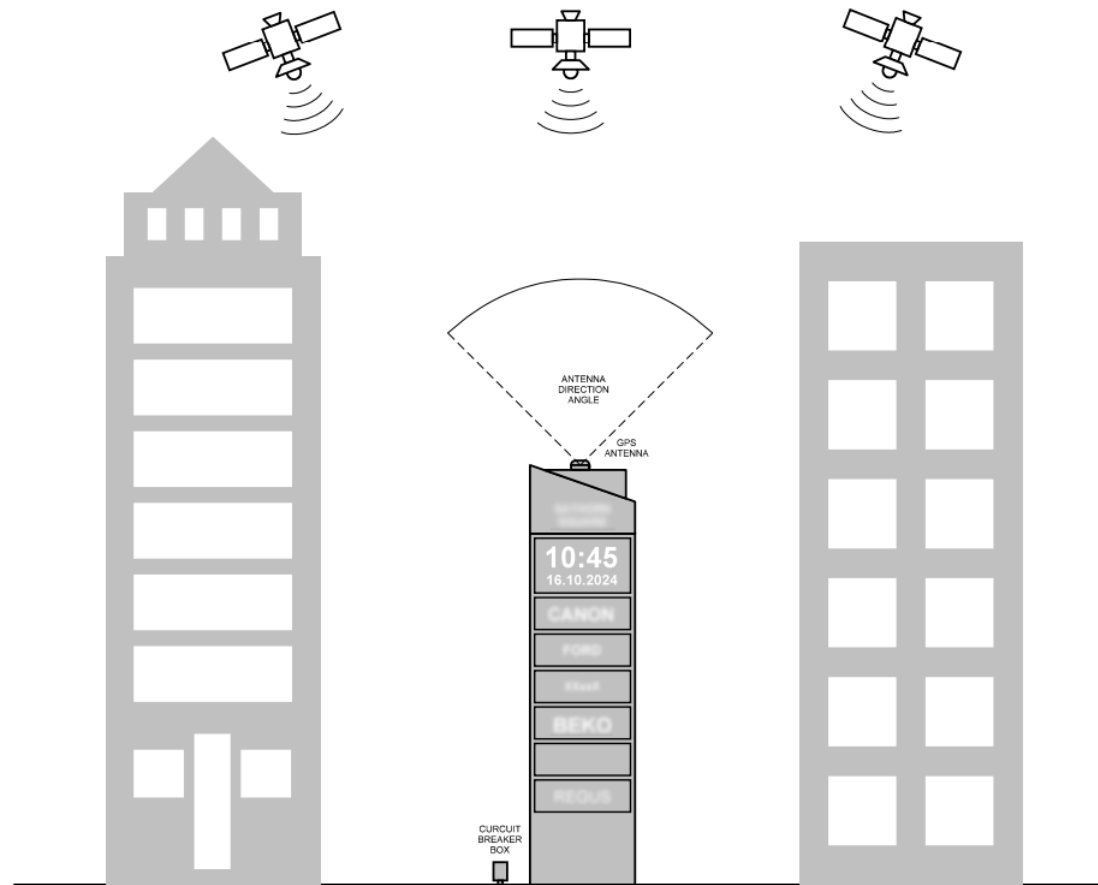
No obstacles between antenna and sky!

USAGE:

1. Just connect clock power cable to grid. The screen will show time "07:00" and date "00.00.2000".

2. Wait around 10-40 sec. When CLOCK will catch a few satellites, screen will start to show the real current time and date.

3. If during exploitation you 've noticed some weird things on the screen (for instance: wrong date/time, flickers, etc.) – needed to provide hard reset. To do it, please turn off Circuit Breaker located nearby the Signage Pylon, leave it and wait. After 20 seconds that you can switch it on again:

SIGNAGE PYLON
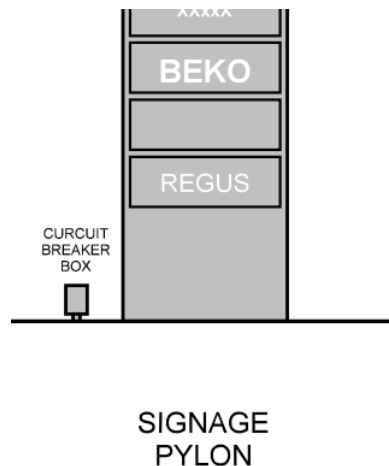
If it doesn't helps – please, contact to your supplier.

MAINTENANCE and SERVICE:

EVERY 1/2 YEAR or ONE YEAR	Clean the screen from dust with water and soft cloth. Don't use any aggressive solvents and rough cloth!
EVERY 5-6 YEARS	Replace all LED-modules.
EVERY 8 YEARS	Replace all Power Suppliers inside the CLOCK case.