



 **DIGIMAT**

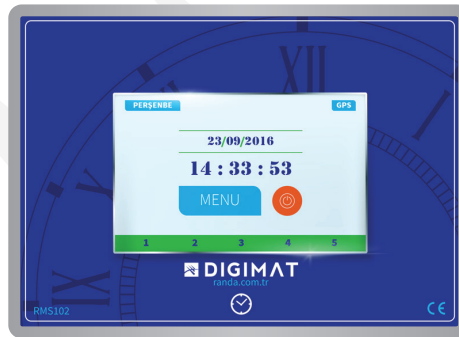
RS485 WIRED CLOCK

DATASHEET

MAIN CLOCK & GPS ANTENNA – RMS100

Digimat GPS clock is capable for the time synchronization requirements in various industries like healthcare, pharmaceutical, IT, military, telecommunication, education sector etc.

Randa Main Clocks are the focal point of the system. It comes from the factory with an OCXO Oscillator that is accurate to +/- 1 second over 20 years. The master clock still comes with a GPS receiver. The time is then broadcasted to all secondary devices once per second. The Randa master clock system features dual independent clocks and transmitters.



TECHNICAL SPECIFICATIONS:

Screen	4.3" LCD (Touch)
Operating Sensitivity	RS485 Output
Satellite	GPS
Antenna	External
Distance	200m
Adjustable in Main Clock	RTC and GPS
Language	TR/EN
Programmable Relay Times	8
Input Voltage	220VAC
Output Voltage	Relay 5V RS485
Color	White/Blue
Bezel	ABS Plastic
Environment	-5 / +50 C Humidity: %80
Size	Wall Type
Weight	2,3 Kg

Features:

GPS Satellite Time reference for the system

Redundant GPS and Master with comparator

- 4,3" LCD Display with Status LED's
- Universal Time-zone and Local Time zone
- Universal (AC/DC) Power Supply
- Highly accurate RTC with Lithium Battery Backup
- All weather proof GPS Antenna
- Numerical relays, Slave Clocks

GPS Antenna

The GPS module is the unit that works in conjunction with the main unit and distributes the real time clock data received from one or more satellites to the central clock system via its active antenna.

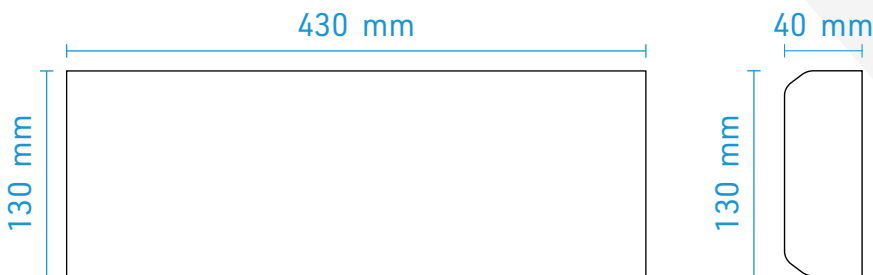
Center Frequency 1575.42MHz ± 3 MHz. LNA Gain as standard (without cable) is 28dB.

SINGLESIDE 57MM 6DIGITS DIGITAL CLOCK - K561



TECHNICAL SPECIFICATIONS:

Material	Aluminium or ABS Plastic
Power Supply	220VAC
Brand	Digmat
Screen Size	13x43x4cm
Type	Wired
Display Format	HH:MM:SS - Date (Optional)
Format	12H and 24H format
Character	7 Segment
LED indications	PM, SYNC (Single Face, Wall Type)
Master to slave link	RS485
Optimal Reading & Angle	25m - 120°



DOUBLESIDE 57MM 6DIGITS DIGITAL CLOCK - K562

Randa offers GPS based solution for accurate and consistent timekeeping within a facility, whether a factory or an office.

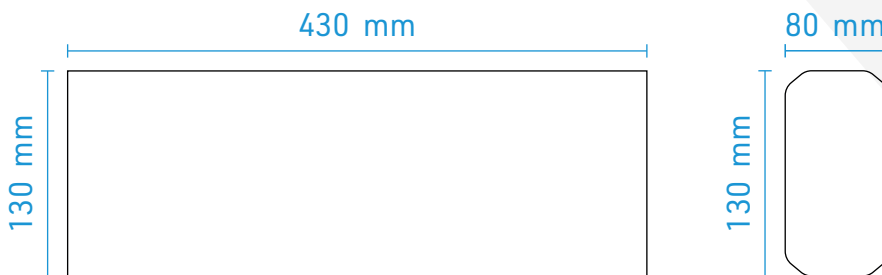


TECHNICAL SPECIFICATIONS:

Material	Stainless Steel Case
Power Supply	220VAC
Brand	Digmat
Screen Size	13x43x8cm
Type	Wired
Display Format	HH:MM:SS - Temperature
Format	12H and 24H format
Character	7 Segment
LED indications	Double (Ceiling Type)
Master to slave link	RS485
Optimal Reading & Angle	25m - 120°
Stopwatch & Remote Control	Yes

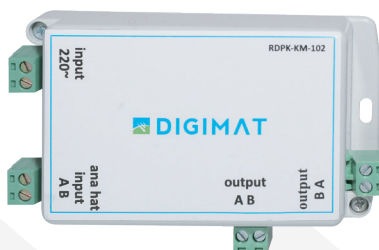
Features:

- Main Clock - GPS satellite
- Ethernet communication for reduced synchronizing time
- Software for synchronizing PC time
- Range expansion without using additional hardware
- Built-in RTC with battery backup
- 39 Timezones and Daylight Saving Time adjustment
- 12H and 24H format
- User friendly interface for configuration
- IP65 protection
- 2.3" and 4.0" super bright seven segment LED display
- Display colour - Red
- Multiple mounting arrangements like Table-top, wall mount and hanging models



DATA REPEATER – DM12

This device is an isolator and repeater for RS485 network. It is possible to isolate a RS485 branch of network or/and repeat the signal.



TECHNICAL SPECIFICATIONS:

Connector	RS-485 2 bits terminal block input RS-485 2 bits terminal block output
Protection	RS-485 provides with 600W lightning, surge, $\pm 15\text{KV}$ ESD protection each line
Transmission Media	Twisted-pair or shielded cable
Baudrate	300BPS-115.2K BPS
Dimension	30mm x 56mm x 105mm
Operating temperature	0°C to 50°C
Relative humidity	5% to 95 % (Non-condensing), Works with all communication software, plug & play
Transmission distance	0-1,200m (115,200bps-9,600bps)

