



Meteo-40L plus

Order number	Availability
M31020	On request

Wind and Solar Resource Assessment + Wind Farm Monitoring (SCADA) + Power Performance Measurements

Description

Applications:

Wind Resource Assessment

Power Performance Measurements

Wind Park Monitoring / SCADA

Wind Measurement in Cold Climate

Solar Resource Assessment

Soiling Measurement

Solar Park Monitoring / SCADA

Dynamic Line Rating

- Compliant with IEC 61400-12-1:2017
- User-friendly configuration via protected web interface
- Various inputs and outputs for different measurement purposes

New developments:

1. LTE and 4G modems e. g., PLS8-E and many more.
2. Web Interface and Email: TLS 1.1, 1.2, and 1.3 are supported.
3. Admin user can create new users or delete them.
4. Predefined users can be deleted.
5. Less latency in SCADA systems due to faster Modbus RTU and TCP
6. Latest Linux version and newest versions of security libraries like SSL, SSH, SFTP, SCP, https, etc.
7. Data can be sent with FTPS which makes industry standard encryption more accessible.

Specifications

Meteo-40L plus

General Information

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Input Channels

Pulse Counters	12	Anemometers, precipitation sensors
Digital Serial (Status)	8	Wind vanes serial, precipitation monitors, ext. activation
Analog Voltage	$12 \pm 0.1 \text{ V}$, $\pm 1 \text{ V}$, $\pm 10 \text{ V}$, 16 bit	Air pressure, temperature, humidity sensors, pot. wind vanes, pyranometers, pyrhemometers
Analog Current	$2 \pm 1 \text{ mA}$, $\pm 10 \text{ mA}$, $\pm 100 \text{ mA}$, 16 bit	Sensors with DC output, e.g., temperature humidity sensor (0 ... 20 mA)
RS485 (M)	(1) RS485 Master for up to 8 smart sensors	Ultrasonic anemometers and smart sensors

Output Channels

RS485 (S)	(1) RS485 Slave	SCADA monitoring software
5V Switches	8	Sensor supply, relay for modem, heating supply
Current Source	2	Pt1000, Pt100

Connectivity

USB	(2) USB-A host (1) USB-B device	PC, modem, memory stick, WiFi, GPS, web cam
Ethernet	(1) Ethernet	Router, SAT-Modem, LAN and SCADA output
Data Transfer	Email, FTP, SCP, SFTP, FTPS, Datacopy on USB-Stick, SCADA	
Data Cloud	SCP to AmmonitOR	https://or.ammonit.com
Remote Access to Data Logger	SSH reverse tunnel through AmmonitConnect Server	<a href="https://<serialnumber>.connect.ammonit.com/">https://<serialnumber>.connect.ammonit.com/

Storage Size

Source Data (1-sec data)	2 GB
CSV Data (10-min data)	> 50 MB

Meteo-40L plus**Display & Keys**

(20 x 4) LC display with backlight, five keys

Power Supply

9 ... 36 VDC

Operating Temperature

-40 ... +65 °C

Protection (Housing)

IP65

Housing Dimensions

260 x 194 x 50 mm

Weight

950 g

Accessories

External modules, plug connector, mounting kit, steel cabinet

Accessories

Calibration METEO-40 plus