

# Meteo-40M plus

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 Monitoring](#)

- 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-40M plus			Description / Device
	Order Number	M21020	
Input Channels	Pulse Counters	8	Anemometers, precipitation sensors
	Digital Serial (Status)	4	Wind vanes serial, precipitation monitors, ext. activation
	Analog Voltage	8 $\pm 0.1\text{ V}$ , $\pm 1\text{ V}$ , $\pm 10\text{ V}$ 16 bit	Air pressure, temperature, humidity sensors, pot. wind vanes, pyranometers, pyrhemometers
	Analog Current	1 $\pm 1\text{ mA}$ , $\pm 10\text{ mA}$ , $\pm 100\text{ mA}$ 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	4	Sensor supply, relay for modem, heating supply
	Current Source	1	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	<a href="https://or.ammonit.com">https://or.ammonit.com</a>
	Remote control	SSH reverse tunnel through AmmonitConnect Server	<a href="https://&lt;serialnumber&gt;.connect.ammonit.com/">https://&lt;serialnumber&gt;.connect.ammonit.com/</a>

Meteo-40M plus			Description / Device
Storage Size	Source Data (1-sec data)	2 GB	
	CSV Data (10-min data)	> 50 MB	
	Display & Keys	(20 x 4) LC display with backlight, five keys	
	Power Supply	9 ... 36 VDC	
	Operat. 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	