

Meteo-40L 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-40L plus | | | Description / Device |
|-----------------|-------------------------|--|---|
| | Order Number | M31020 | |
| 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 control | SSH reverse tunnel through AmmonitConnect Server | <a href="https://<serialnumber>.connect.ammonit.com/">https://<serialnumber>.connect.ammonit.com/ |

| Meteo-40L 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 | |