

## Confirmation of Compliance — Meteo-42 Data Logger with IEC 61400-12-1 Edition 2.0 and IEC 61400-50-1:2022

This letter serves as formal confirmation regarding the technical specifications and operational compliance of the **Meteo-42 Data Logger** (including models Meteo-42M, Meteo-42L, etc., collectively "Meteo-42") from Ammonit Measurement GmbH.

The Meteo-42 adheres to the requirements of the international standards **IEC 61400-12-1, Edition 2.0 (2017-03)** and **IEC 61400-50-1:2022** concerning Power Performance Testing (PPT) of electricity-producing wind turbines and bankable Wind Resource Assessment (WRA) campaigns.

The Meteo-42 has been specifically engineered and validated to ensure the integrity, precision, and security of wind measurement data required for certified campaigns.

### Key Features Ensuring Compliance

The Meteo-42 data logger platform fully adheres to the necessary technical and operational criteria specified in relevant annexes of IEC 61400-12-1 Ed. 2.0, including the data acquisition and processing requirements later codified in IEC 61400-50-1:2022:

1. **High-Resolution Data Acquisition:** Equipped with 16-bit Analog-to-Digital converters and high-precision input channels, ensuring measurement uncertainty remains within strict limits.
2. **Synchronous High-Frequency Sampling:** Performs synchronous sampling of all sensors (typically **1 Hz** or faster) to accurately capture turbulence intensity.
3. **Data Aggregation and Storage:** Capable of calculating and storing the required statistical aggregations, specifically **10-minute averages** and standard deviations. It also stores 1-second raw data (Source Data) for detailed validation and audit purposes.
4. **Digital Sensor Compatibility:** Multiple RS-485 interfaces support a wide range of certified digital sensors (anemometers, sonic sensors, power meters), maintaining data integrity.
5. **Environmental Integrity:** The robust IP65-rated housing and wide operating temperature range (**-40°C to +65°C**) ensure reliable operation in harsh climatic conditions.
6. **Time Synchronization:** Maintains highly accurate internal time synchronization, a fundamental requirement for correlating wind speed with wind turbine power output.

### Conclusion

Based on its proven technical architecture, operational stability, and adherence to international measurement practices, we confirm that the Meteo-42 Data Logger is a compliant instrument for use in wind energy measurement campaigns governed by the requirements of IEC 61400-12-1 Edition 2.0. and IEC 61400-50-1:2022.

For any additional documentation, including detailed technical manuals, specifications, or third-party validation reports, please do not hesitate to contact our technical support team.



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Berlin, November 2025