

Power Supply Solutions from Wilmers Messtechnik

Wilmers Messtechnik offers autonomous power supply solutions for remote areas. Remote monitoring via mobile Internet ensures close control over the systems. The systems send alarms at failure or when maintenance is required. Depending on the technology, our power supply systems provide continuous power from 1 to 2.500 Watts at 12/ 24 VDC or 230 VAC.

Typical Applications

- Measurement stations
- Heated wind sensors
- Flight obstruction lights
- Remote radio transmitters
- SoDAR / LiDAR
- WebCams



Measurement Solutions from Wilmers Messtechnik

Since 1991, **Wilmers Messtechnik** develops and manufactures data loggers and measurement systems for wind site assessment, climate research and meteorological observations.

In addition to our data loggers **wilog306**, **blueberry NDL485** and **blueberry COMPACT** we integrate sensors and components from leading manufacturers. Many years of experience in production and installation of measurement hardware, in software and in processing of measurement data enables our team to provide qualified pre-sales and after-sales consultancy and support.

Wilmers Messtechnik offers solutions for wind measurement in cold climate: our autonomous power supply systems ensure reliable operation of heated wind sensors under icing conditions.

Our customers are leading wind turbine manufacturers, wind energy consultants, wind farm developers, environmental consultants, electric utilities, wind energy and climate research institutes, universities, international NGOs, weather services and government institutions.



Environment • Measurement • Systems

Capturing the Future

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Power Supply Systems for Remote Sites



- Solar/Wind/Fuel Cell/Diesel
- 1 to 2.500 Watt
- Unattended Operation
- Remote Monitoring
- Cold Climate



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Power Supply Systems for Remote Sites

Further Information:



| | Solar Module | Wind Solar Hybrid System | Fuel Cell | Diesel Generator System WindPowerPack |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum power | 60 Wp per module | 470 W | 110 W | 2.500 W |
| Typical average power | 1 .. 3 W per module | 10 .. 35 W | 30 .. 80 W | 300 .. 1.500 W |
| Maintenance interval | 12 months | 12 months | 2 .. 3 months | 2 .. 6 months |
| Fuel type | sun | sun + wind | methanol | diesel |
| Nominal consumption | - | - | 0.9 l/kWh | 2.1 l/kWh |
| Life time | 10 years | 10 years | 4.500 operating hours | 6.000 operating hours |
| Operating temperature | -40 .. +70 °C (with no icing) | -40 .. +70 °C (with no icing) | -20 .. +50 °C (optional -40 °C) | -40 .. +60 °C |
| Price | 1.100 € (60 Wp) 1.600 € (120 Wp) | approx. 3.500 € | approx. 11.000 € (-20 °C) approx. 16.000 € (-40 °C) | approx. 39.500 € |
| PRO | <ul style="list-style-type: none"> • no fuel costs • long live time • low maintenance • zero emission • silent | <ul style="list-style-type: none"> • no fuel costs • long live time • low maintenance • zero emission | <ul style="list-style-type: none"> • low emission • silent • GPRS remote monitoring | <ul style="list-style-type: none"> • high average power • good fuel availability • GPRS remote monitoring • logger system can be integrated into the container |
| CONTRA | <ul style="list-style-type: none"> • too little power for heated sensor systems | <ul style="list-style-type: none"> • too little power for heated sensor systems | <ul style="list-style-type: none"> • too little power for heated sensor systems • bad fuel availability | <ul style="list-style-type: none"> • high price • noisy • high emission |

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