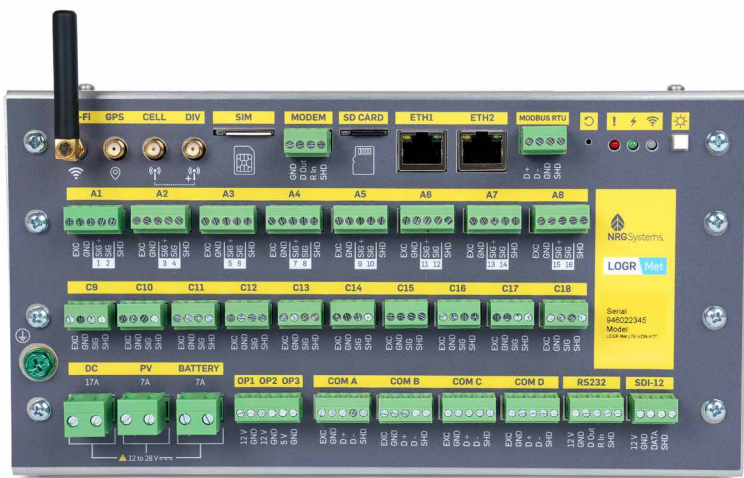


# NRG LOGR | MET

THE NEXT GENERATION IN WIND AND SOLAR RESOURCE ASSESSMENT AND MONITORING



The LOGR | Met Data Logger is a secure, highly versatile data logging system, powering NRG's trusted data ecosystem with unparalleled ease of use and efficiency. Its flexible and scalable design, advanced measurement capabilities, and intuitive interface ensure the highest quality data and seamless integration into any measurement campaign, driving project success at every stage.

## Key Features:

- **Advanced security measures** such as data encryption and encrypted web access protect information and reduce risk by ensuring data integrity and confidentiality
- **Unmatched sensor compatibility** via 16 differential/analog channels and 48 serial channels coupled with expandable storage makes LOGR | Met the renewable energy industry's most versatile and scalable data logger
- **Flexible connectivity** features include dual ethernet ports for simultaneous and secure local and SCADA network connections, an integrated cellular modem to maintain accessibility in remote locations, and built-in Wi-Fi for immediate on-site device access and configuration capability
- **Optimal accessibility** through integration with NRG Mobile App and NRG Cloud facilitates effortless data synchronization, real-time measurement monitoring, remote site configuration, and secure data management from anywhere
- **Enhanced data accuracy** thanks to the precise geolocation information provided by built-in GPS

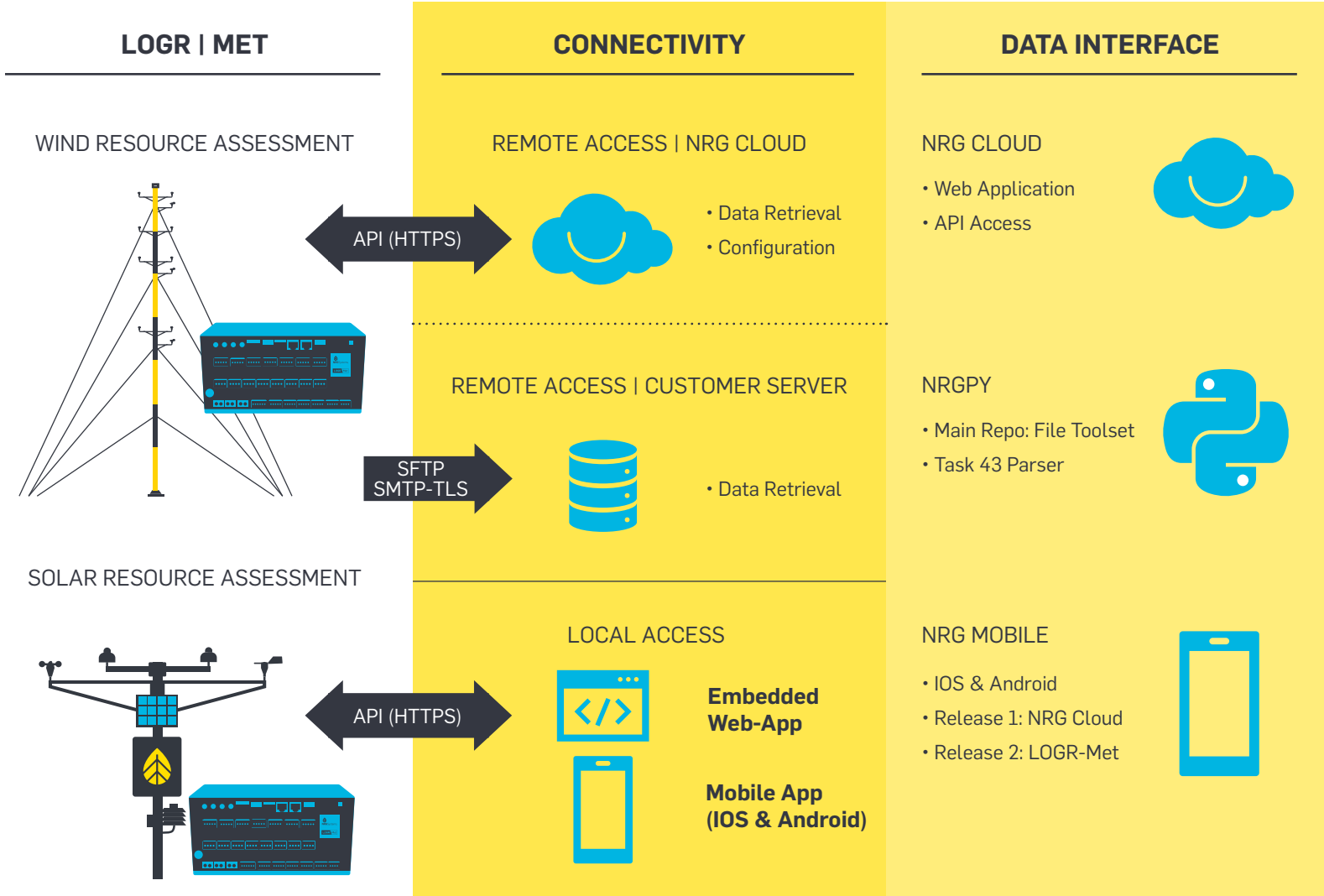


## DATA LOGGER COMPARISON

	SymphoniePRO (26-Ch)	LOGR   Solar	LOGR   Met
<b>Sampling Interval</b>	1 Hz	1 Hz	1 Hz
<b>Averaging Interval</b>	1-60 min	1 min	1, 5 or 10 min
<b>Storage Medium</b>	8 MB internal flash memory with options for either 512 MB or 2 GB SD card	8 GB microSD	8 GB microSD (upgradeable)
<b>Terminal Termination</b>	Screw Terminals	Screw Terminals (Plugs)	Screw Terminals (Plugs)
<b>Channel Capacity</b>	14 analog channels: 7 built-in, 7 configurable with signal conditioning modules (P-SCMs)	14 analog channels, 7 differential	8/16 differential/analog channels
	2 RS-485 communication channels, each full or half duplex with support for up to 6 devices	24 serial channels via 2 RS-485 communication ports	48 serial channels via 4 RS-485 communication ports
	12 counter channels, 10 calculated channels	5 counter channels, 10 calculated channels plus dedicated soiling ratio calculation	10 counter channels - independent terminals, 20 calculated channels
	No dedicated soiling channel	2 PV Input channels (soiling measurement)	No dedicated soiling channels
<b>Recorded Parameters</b>	Average, St. Dev, Min/Max 1-sec sample, Max 3-sec gust with direction, Sum for totalizer inputs	Average, St. Dev, Min/Max 1-sec sample, Max 3-sec gust with direction, Sum for totalizer inputs	Average, St. Dev, Min / Max 1-sec sample, Max 3-sec gust with direction, Sum for totalizer inputs
<b>Security</b>	Logger access PIN with 2-day lockout after 8 failed attempts, 128-bit data file encryption with user-specified password	Password-protected web server access	<ul style="list-style-type: none"> <li>• Password-protected web server access.</li> <li>• Optional data encryption at rest</li> <li>• Encrypted web-gui access SFTP, SMTP (TLS)</li> </ul>

		SymphoniePRO (26-Ch)	LOGR   Solar	LOGR   Met
Resolution	Analog Measurement Accuracy	±0.04% Full Scale	Uncertainty (k=2): 450 µV @ (-10 to +10) V   61 µV @ (-1 to +1) V   8.5 µV @ (-70 to +70) mV	Uncertainty (k=2): 450 µV @ (-10 to +10) V   61 µV @ (-1 to +1) V   8.5 µV @ (-70 to +70) mV
	Analog Measurement Resolution	16-bit A/D conversion (76 µV resolution across 5 V range)	24-bit signed A/D conversion	24-bit signed A/D conversion
Configuration	User Interface	SymphoniePRO Desktop Application	Web-based user interface via Ethernet connected computing device with supported browser	<ul style="list-style-type: none"> <li>Web-based user interface via Ethernet/Wifi/Cellular connected computing device with supported browser</li> <li>Mobile &amp; Desktop Application for configuration</li> <li>NRG Cloud</li> </ul>
		LCD with 16 button keypad with audible feedback	Recessed reset button on front panel	<ul style="list-style-type: none"> <li>Recessed reset button on front panel</li> <li>3 LEDs &amp; Audible Beeper</li> </ul>
Power	Batteries	Two (2) 1.5 volt D-Cell batteries (included with logger)	<ul style="list-style-type: none"> <li>12V external battery for system power</li> <li>Coin cell battery for clock backup</li> </ul>	<ul style="list-style-type: none"> <li>12V external battery for system power</li> <li>Coin cell battery for clock backup</li> </ul>
	External Power Input	14 VDC iPackGPS 2300mAh equipped with PV provides autonomous power to data logger when connected, making D-Cell batteries back up power	16 - 28 VDC	10 to 28V DC input
	External Solar Input	Yes, 16-28 VDC	External charge control required	PV Input (integrated charge controller)
	External Power Output	5V, 12V sensor power	Constant 12 V source for powering analog sensors (50 mA per excitation port, 7 ports)	Constant 12 V source for powering Modbus sensors (1000 mA shared by three COM-A ports and additional 1000mA to COM-B port)
Requires external power supply		Constant 12 V source for powering Modbus sensors (1000 mA for each of the 4 COM ports with one terminal block per port)		
Software	Type	Desktop App	Onboard web server for logger configuration and administration	Onboard web server for logger configuration and administration
Environmental	Operating Temperature Range	-40 °C to 65 °C (-40 °F to 149 °F)	-40 °C to 65 °C (-40 °F to 149 °F)	-40 °C to 65 °C (-40 °F to 149 °F)
	Operating Humidity Range	0 to 100% relative humidity non-condensing	0 to 100% relative humidity non-condensing	0 to 100% relative humidity non-condensing
		IP65	IP65 ingress protection with proper installation in NRG shelter box enclosure	IP65 ingress protection with proper installation in NRG shelter box enclosure
Physical	Dimensions	(222 x 187 x 74) mm	(190 x 102 x 102) mm	(246 x 135 x 132) mm
Other	Web Service	NRG Cloud	NRG Cloud	NRG Cloud
	Programmability	User friendly	User friendly	User friendly
	Smart Sensor	2 ports	2 ports - 4 terminal blocks	4 ports - 4 terminal blocks
	Warranty	2 years	2 years	2 years
	Mobile App	X	X	✓
	GPS	✓	X	✓ (for units with internal modems)
	Modem (4G LTE)	iPack	External	✓

# POWERING NRG'S DATA ECOSYSTEM WITH LOGR | MET



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