

Met masts and wind systems

For over 20 years, ART has been a leader in the design and manufacture of Australian-made met masts and wind systems across Australia and New Zealand.

Our proven turnkey solutions provide precise wind resource measurement and deliver the highest quality bankable wind data.

We specialise in custom wind system solutions tailored to your needs for both temporary and permanent masts. Our designs and boom layouts meet or exceed IEC standards and industry best practices, ensuring accuracy and compliance.

ART's national in-house installation team expertly installs met masts in any location, no matter how remote, using crane-free methods or helicopter options for challenging terrains.

Our met masts and wind systems are designed and delivered with the highest standards of quality and safety in mind. Engineered for reliability and efficiency, they are built with premium components to ensure long-term performance and ease of maintenance, allowing for rapid repairs when needed.

The logger enclosures boast an industrial-grade design, featuring cable ducting, fuse blocks for sensors and power circuits, and terminal blocks for streamlined connections. They typically house CR1000X Campbell Scientific loggers, capable of storing 5–10 years of data, ensuring robust data collection and management.

Systems are earthed to Australian standards, with ART-designed booms, brackets, and



armoured backbone cables for durability and quick maintenance. Features include junction box system for rapid sensor replacement and a pop-out lightning protection module for added convenience.

Customisable loggers can handle almost any sensor and protocol, including Modbus and DNP3 for SCADA integration. Remote communication options such as GSM (4G), satellite, Ethernet, and radio ensure seamless connectivity, supported by clear wiring diagrams for easy installation.

With a proven track record, national reach, and commitment to innovation, ART delivers industry-leading wind measurement solutions designed to meet the unique challenges of Australia's wind energy sector.

FEATURES

- ✓ Designed, manufactured and tested at our factory in Australia
- ✓ ISO9001 (Quality) & ISO45001 (Safety) accredited
- ✓ Experienced installation team
- ✓ Compliant with IEC standards and industry best practice
- ✓ Remote and complex site experts
- ✓ Durable and weather-resistant construction to withstand harsh environmental conditions

Wind Asset Management Solution

ART's Wind Asset Management Solution is designed to maximise uptime and provide risk management support, by giving you the peace of mind that your wind assets are being monitored and maintained to the highest standard.

We have developed a unique subscription-based Wind Asset Management Solution by combining

real-time sensor monitoring with a multi-tiered managed service, tailored to suit your needs and delivered by our dedicated inhouse teams.

Whether you need sensor or structures maintenance, ART offers tailored packages to suit your requirements with a focus on cost efficiencies, risk management and reliability.

Met mast and wind system specifications (typical)

FEATURE	DESCRIPTION
Met mast structure	Triangular lattice – 360/550/750 mm face width, up to 180 m
Design and manufacture	Compliant to Australian standards and IEC61400.12.1
Design life	6 years – Temporary, 25–30 years – Permanent
Anchor solution	6 or 9 buried or rock drilled anchors, radius typically 2/3 of mast height
Lightning protection	Standard or customised lightning systems available
Aviation options	Marker balls, red/white painting, aviation lights
Other options	Mast anti-climb, guy markers, Ladsafe cable, signage, fencing
Data logger	Campbell Scientific or others on request
Wind sensors	First class sensors from Thies, Windsensor, Vector and others – with MEASNET calibrations
Other sensors	Highest quality sensors from Vaisala, GaltechMela, RM Young & others
System layout	Full IEC compliance, goal post or single riser top, custom heights
Logger enclosure	IP66 Stainless Steel
Power	Solar panel and battery, AC power integration available
Remote monitoring	4G with external antenna, or satellite
Scada compatibility	Full integration into Scada systems available via Modbus and fibre
Data delivery	Email and S/FTP options
Health monitoring	WindPulse online dashboard with daily email and traffic light dashboard alerting of any issues with system power, communications or sensors

About us

ART designs, manufactures, installs, and maintains turnkey infrastructure solutions for wind resource assessments, as well as for the broader renewables, resources and communications industries.

ART

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