



## New Retrofits for Siemens and Mitsubishi Turbines

# Hybrid XT

## Turbine Control Sensors

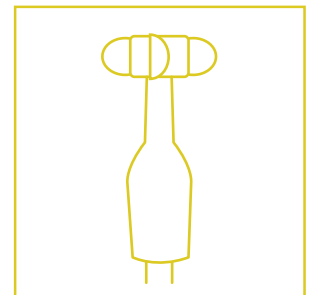
Reliable Turbine Control. Any Weather. Any Turbine.

### Reliability

- Two-stage contamination protection extends sensor life
  - Fully sealed sensor body minimizes dust, dirt, and water ingress
  - Sealed cartridge bearing system prevents contamination from affecting the bearings
- Shock-resistant bearing mounting prevents damage caused by rough handling
- Rugged metal head prevents breakage due to accidental drops or icing
- Recommended maintenance interval of 10 years eliminates unwanted trips to your turbines

### Icing Performance

- Metal sensor body conducts heat to the whole sensor, preventing ice buildup and increasing turbine availability in icing climates
- 96W heating element provides ample de-icing power



Wind Plant  
Optimization



## We know you are looking for solutions

not just sensors, so we have created complete retrofit kits so you can easily transition from your previous sensor to the Hybrid XT sensor. Each retrofit kit includes a sensor, the cable needed for your application, and a mechanical mounting solution to fit the sensor to your turbine.



Hybrid XT Vane Retrofit Kit | Mitsubishi | NEI (#9371)

## It's Easy

Your Current Configuration:	You Need:	Anemometer Kit:	Vane Kit:	Power Kit:
GE 1.5MW with IceFree3 sensors	→	5388	5389	N/A
Siemens 2.3MW with KK sensors	→	9373	9374	9375
Gamesa with IceFree3 sensors	→	8535	8536	N/A
Mitsubishi 600kW / 1MW with Nippon sensors	→	9370	9371	9376
Mitsubishi 600kW / 1MW with IceFree3	→	9372	9371	9376

RNRG is dedicated to creating complete retrofit solutions for as many turbines as possible. If you don't see your turbine type in this table, contact us to see if we are currently working on a solution.

SPECS	Specification	Hybrid XT Anemometer	Hybrid XT Vane
	Sensor range	0 to 50 m/s (112 mph) Survivable to 70 m/s (156 mph)	0° to 360°, free rotation
	Accuracy	+/- (0.3 m/s + 2% of measured value)	+/- 1.8° (0.5%)
	Threshold	< 1.6 m/s (< 3.6 mph)	< 2.4 m/s (< 5.4 mph)
	Power requirement	96W (self-regulating) , 9A peak inrush	96W (self-regulating) , 9A peak inrush



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