IMon-Q200
Motor Insulation Monitoring Data Acquisition Device

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CN Rev.v1.0

Product Overview

IMon-Q200 motor insulation monitoring data acquisition device is an online insulation monitoring device for wind turbines developed according to the application characteristics of wind power generators. It adopts the DC injection method to measure the insulation of cables, motor windings, etc., with a test voltage of DC 500V. The device is interlocked with the wind turbine circuit. It automatically exits monitoring and disconnects from the power grid when the generator is running. When the generator stops, the insulation monitor automatically performs insulation detection on stator winding to ground, rotor winding to ground, and stator winding to rotor winding.

Main Features

- Suitable for wind turbines below 1140V.
- Insulation detection for three circuits: stator winding to ground, rotor winding to ground, and stator winding to rotor winding.
- Three independent relay alarm outputs.
- Test and reset functions.
- Backlit LCD display for viewing and setting parameters.
- Communication via RS-485 interface using Modbus protocol.
- Fully automatic measurement; manual measurement is also available.

Technical Parameters

Item	Parameter Indicator	Remarks
Power supply	AC 85-265V 50Hz	
Rated power	<5W	
Mechanical dimensions	135*89*110	
Equipment weight	≤0.6Kg	
Insulation resistance measuring range	0~499.99MΩ	Min resolution 10kΩ
Insulation alarm set value	0~100.00MΩ	
Insulation pre-alarm set value	0~100.00MΩ	
Measuring signal voltage	DC500V	
Dry contact output	Normally closed contact, 250 VAC/6 A; 30 V/6 A	
Ambient temperature	-20℃~50℃	
Ambient humidity	Relative humidity < 95%	

Device Parameters and Factory Default Settings

Setting Page	Option	Factory Default	Function
Enable	R1	On	On: Enable the corresponding circuit Off: Disable the corresponding circuit
	R2		
	R3		
Alarm	R1	0	Alarm value for corresponding circuit Unit: 10kΩ
	R2		
	R3		
PreAlarm	R1	0	Pre-alarm value for corresponding circuit Unit: 10kΩ
	R2		
	R3		
Time	Cooling	5	Cool-down time, Unit: min
	Measure	2	Measuring time, Unit: min
	Interval	30	Measuring interval, Unit: min
OutPort	OutMode	NO	NO: Normally open; NC: Normally closed
	P1.Mode	P.Alarm	P.Alarm: Pre-alarm of corresponding circuit Measure: Circuit measuring Enable: Circuit enabled _Alarm_: Any circuit alarm
	P2.Mode		
	P3.Mode		
RS485	ID	1	Communication ID
	Bund	9600	Baud rate
	Bits	8_1_N	Data bits_Stop bits_Parity

After setting parameters in the RS485 page, the device must be restarted to take effect.