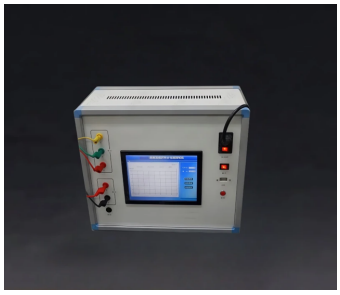
HF-RT-205

Excitation System Tester



This portable Excitation System Tester precisely simulates voltage and current signals to test generator AVR and excitation loops. It completes static characteristic calibration, trigger inspection, waveform recording and fault diagnosis for hydropower and thermal power units with high measurement accuracy.

Key features

- Open-loop small current test of excitation regulator
- Thyristor trigger angle & rectifier characteristic test
- AVR static voltage regulation characteristic test
- CT/PT ratio & polarity verification
- Synchronization loop phase and sequence detection

Technical specifications

Parameter	Value
Product Name	Excitation System Tester
Current Output Range	0-10 A (customizable according to requirements)
Output Voltage	0-250 V AC/DC (optional configuration)
Frequency Output	45 Hz-65 Hz adjustable
Measurement Channels	Multi-channel analog signal measurement
Voltage Measurement Range	0-1000 V AC/DC
Current Measurement Range	0-20 A AC/DC
Measurement Accuracy	≤0.5%
Signal Input	Analog voltage/current input, feedback signal input
Data Acquisition	Real-time waveform acquisition and recording
Communication Interface	USB, Ethernet (optional RS485)
Display	Industrial touchscreen display
Operation Mode	Local operation and computer-controlled operation
Power Supply	AC 220 V ±10%, 50/60 Hz
Operating Temperature	-10°C to +50°C
Relative Humidity	≤90% RH, non-condensing
Communication Protocol	Modbus TCP/RTU (optional)
Dimension	Customized according to configuration
Weight	Portable design for field commissioning

Standard scope of supply

No.	Item	Qty	Notes
1	Excitation System Tester Main Unit	1 set	
2	Test Software Package	1 set	
3	Industrial Control Laptop (Optional)	1 pc	
4	Power Supply Cable	1 pc	

Specifications are taken from the published product data and are subject to change without notice. Confirm critical parameters at the time of order.

No.	Item	Qty	Notes
5	Voltage Test Leads	1 set	
6	Current Test Leads	1 set	
7	Signal Simulation Cable	1 set	
8	Communication Cable	1 set	
9	Grounding Cable	1 pc	
10	Test Clamp / Terminal Accessories	1 set	
11	User Manual	1 copy	
12	Calibration Certificate	1 copy	
13	Factory Test Report	1 copy	
14	Spare Fuse and Accessories	1 set	
15	Carrying Case / Wooden Case	1 set	

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.

Specifications are taken from the published product data and are subject to change without notice. Confirm critical parameters at the time of order.