

# WF-EN-55 Engine Test Bench

Measure Performance  
Measure State  
Measure Fuel Consumption  
Measure Fatigue



MAX Thrust  
150 KGF



MAX Propeller  
65 inch



English User  
Interface



Max Hanging Weight  
35KG



Software  
MET-Engine Series



## WF-EN-55 Engine Test Bench

Basic Parameters	Operating Temp	0 ~ +40 °C
	Operating Humidity	±80% No condensation
	Storage Temp	-20~+40 °C
	Storage Humidity	≤ 90% No condensation
	Maximum Installed Weight	35KG
Equipment Power Supply	Recommended Test Engine	110~550CC
	Max Propeller	65 in
	AC Power Supply	AC100~277V 2.8A
	Equipment Power Consumption	DC 24V 0.5A
	Battery System	12V/24V 20/10AH (CCA≥200A)
Device Communication	Charging Current	15.4/7.7A MAX
	Main Serial Port	RS-422@460800
	Temperature Acquisition Serial Port	RS-485@115200
	Wired Communication	High-speed 422 via USB module + 485 via USB module
	Device Type	Dual-channel 422/485 full-duplex wireless transmission
Wireless Data Transmission	Working Frequency Band	2400 MHz
	Transmitting Power	20 dBm
	Communication Distance	200 m
	IO1-ECU Power Supply	15A Relay (battery powered)
	IO2-Electric Starter	300A Relay (battery powered)
Engine Control	IO3-Ignition 1	15A Relay (ground)
	IO4-Ignition 2	15A Relay (ground)
	IO5-Oil Pump 1	15A Relay (battery powered)
	IO6-Oil Pump 2	15A Relay (battery powered)
	IO7-Servo Power Supply	15A Relay (battery powered)
Thrust	Throttle servo PWM signal output 1	333Hz 800~2200μs
	Choke servo PWM signal output 2	333Hz 800~2200μs
	Range	150 kg
	Resolution	0.01 kg
	Instantaneous Overload	200%F.S.
Torque	Destructive Overload	400%F.S.
	Accuracy	0.2%±0.2%FS
	Range	150 N·m
	Resolution	0.01 N·m
	Instantaneous Overload	200%F.S.
Optical Speed	Destructive Overload	400%F.S.
	Accuracy	0.2%±0.2%FS
	Range	0 ~ 15000 RPM
	Resolution	1 RPM
	Accuracy	0.05%±0.05%FS
Pulse Speed	Range	0 ~ 60000 RPM
	Resolution	1 RPM
	Accuracy	0.05%±0.05%FS
	Supported Level	1-5V
	Type	PT100
Cylinder Head Thermocouple*2	Range	-20~250 °C
	Accuracy	± 0.3 °C
	Type	K Type
	Range	-20~650 °C
	Accuracy	0.05%±1 °C
Exhaust Thermocouple*2	Type	PT100/K Type
	Range	Consistent with above
	Acquisition Accuracy	Consistent with above
	Barometric pressure range	30 ~ 110 kpa
	Barometric pressure resolution	0.01 kpa
Spare Temperature Interface*4	Barometric pressure accuracy	±0.06 kpa
	Ambient temperature range	-40 ~ 85 °C
	Ambient temperature resolution	0.1 °C
	Ambient temperature accuracy	±1 °C
	Humidity range	0 ~ 100%RH
Environmental Module	Humidity resolution	1 %RH
	Humidity accuracy	±3%