

WF-EN-17

Engine Test Bench



MAX Thrust
50 KGF



MAX Propeller
40 inch



English User
Interface



Max Hanging Weight
10KG



Software
MET-Engine Series



WF-EN-17 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	10KG
Equipment Power Supply	Recommended Test Engine	30~170CC
	Max Propeller	40 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	15.4/7.7 A 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 (open environment)
	I01-ECU Power Supply	15A relay (battery powered)
	I02-Electric Starter	300A relay (battery powered)
Engine Control	I03-Ignition 1	15A relay (ground)
	I04-Ignition 2	15A relay (ground)
	I05-Oil Pump 1	15A relay (battery powered)
	I06-Oil Pump 2	15A relay (battery powered)
	I07-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	50 kg
	Resolution	0.01 kg
	Instantaneous Overload	200%F.S.
Torque	Destructive Overload	400%F.S.
	Accuracy	0.2%±0.2%FS
	Range	50 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	1.05%±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%