







Rugged Design and **Optimal Functionality**

Safety

✓ Long non-contact distance

The FT3405 and FT3406 has a detection distance 2.5 times greater than its HIOKI predecessor, extending the distance from moving parts for added safety.

HIOKI 3403/ 3404	200 mm/ 7.8"
HIOKI FT3405/ FT3406	500mm/ 19.7"

✓ Red LED

The red LED lets vou continuously focus on the measurement spot even when testing from afar.



Reliability

V DROP PROOF PROOF Main unit only

Testers are built tough to withstand a 1-meter drop onto a concrete



✓ Dust-proof construction

IP50 dust-proof structure makes the Tacho HiTesters tough against the dirt and dust that are unavoidable in field environments.



Convenience

✓ Contact Testing Also Available

By using the optional Z5003 contact adapter, the FT3405 and FT3406 become contact-type tachometers.



✓ Signal Output FT3406 only

With the built-in analog output and pulse output functions, you can record the variations in rotation by connecting the Tacho HiTester to a recorder or data logger. Use an AC adapter with the FT3406 for longterm measurements







Waveform recording

Measure signal variations with a waveform recorder or data logger by using the FT3406's analog output or pulse output functions. Use a multi-channel logger in combination with input from other types of sensors, or a multi-channel recorder to simultaneously measure voltage and current.

Analog output Output cord L9094 (FT3406 only) Pulse output the output side of the cord must be further MEMORY HILOGGER LR8431-20

TACHO HITESTER FT3406

object to be measured

Reflective tape 9211

Specifications (Accuracy guaranteed for 1 year)

Measurement method	Using red visible-spectrum light and reflective tape or a reflective plate (Contact adapter Z5003)	
Display	Transmissive FSTN LCD	
Range switching	Automatic	
Detection range	50mm to 500mm (1.97" to 19.7")	
Reflection detection indicator	Flashing red LED built into [HOLD] key, buzzer	
Sampling period	62.5 ms to 2 s (depending on usage conditions)	
Display refresh rate	Approx. 0.5 to 10 times/sec	
Drop proof	1m onto concrete surface	
Dustproof and waterproof	IP50 (EN60529)	
Functions	MAX/MIN display, Display hold, Average, Auto power save, Buzzer, Backlight function	
Operating temperature	0 to 50°C (32 °F to 122 °F)	
Operating humidity	Up to 40°C (104 °F) 80%RH or less 40°C to 45°C (104 °F to 113 °F) 60%RH or less 45°C to 50°C (113 °F to 122 °F) 50%RH or less (non-condensing)	
Storage temperature and humidity	-10°C to 50°C (14 °F to 122 °F), 80%RH or less (non-condensing)	
Applicable standards	EMC: EN61326 Safety: EN61010	
Power supply	LR6 alkaline battery×2 AC adapter Z1004 (FT3406 only)	
Maximum rated power	0.5VA	
Continuous operating time	Approx. 30 hours (FT3405) or approx. 25 hours (FT3406); When using alkaline batteries with buzzer off	
Dimensions	Approx.71W×186H×38D mm (2.80"W×7.32"H×1.5"D)	
Mass	Approx. 230g (8.1oz.) (with batteries)	

Analog output	Output level: 0-1Vf.s., Output resistance: $1k\Omega$, Accuracy: $\pm 2\%$ f.s., Accuracy guarantee temperature and humidity range:23°C \pm 5°C, 80%RH or less, Temperature coefficient:Add [accuracy specifications x 0.1 x (T-23)], where T is the operating temperature [°C].No temperature coefficient for 18°C to 28°C range.
Pulse output	Output leve:0-3.3V±0.3V, Output resistance:1k Ω
Functions	Power input terminal, AC adapter detection, output terminal setting

Specifications

Note 1: The lowermost digit is fixed at 0 at speeds of 20,000r/min and greater. Note 2: The lowermost digit is fixed at 0 when the averaging setting is off.

When connecting with Model LR8431-20,

processed to fit the instrument.

[Tacho Testing]

MODE	Non-contact		Contact	
	AVG=ON	AVG=OFF	AVG=ON	AVG=OFF
r/min	30.00 to 199.99		15.00 to 199.99	
	200.0 to 1999.9	300.0 to 1999.0	200.0 to 1999.9	150.0 to 1999.0
1/111111	2000 to 19999	2000 to 19990	2000 to 19999	2000 to 19990
	2000 <mark>0</mark> to 99990	20000 to 99990		
	0.5000 to 1.9999		0.2500 to 1.9999	
r/s	2.000 to 19.999	5.000 to 19.990	2.000 to 19.999	2.500 to 19.990
	20.00 to 199.99	20.00 to 199.90	20.00 to 199.99	20.00 to 199.90
	200.0 to 1600.0	200.0 to 1600.0	200.0 to 333.0	200.0 to 333.0
	0.6000 to 1.9999	0.6000 to 1.9990		
Cycle	2.000 to 19.999	2.000 to 19.990	3.000 to 19.999	3.000 to 19.990
(ms)	20.00 to 199.99	20.00 to 199.90	20.00 to 199.99	20.00 to 199.90
	200.0 to 1999.9		200.0 to 3999.9	200.0 to 399.0

[Count Testing]

count	0 to 999999
	(Input conditions: Up to rotational speed measurement upper limit)

[Cycle Speed]

Contact		
AVG=ON	AVG=OFF	
1.500 to 19.999		
20.00 to 199.99	15.00 to 199.90	
200.0 to 1999.9	200.0 to 1999.0	
0.0250 to 1.9999	0.2500 to 1.9990	
2.000 to 19.999	2.000 to 19.990	
20.00 to 33.30	20.0 <mark>0</mark> to 33.3 <mark>0</mark>	
	AVG=ON 1.500 to 19.999 20.00 to 199.99 200.0 to 1999.9 0.0250 to 1.9999 2.000 to 19.999	

Accuracy:

	AVG=ON	AVG=OFF
Up to 9999 counts	±1dgt.	±10dgt.
10000 counts or more	±2dgt.	±20dgt.
20000 counts or more (r/min mode only)	±20dgt.	±100dgt.
Period measurement only	±0.5%rdg. is added to above-mentioned accuracy	



Model: TACHO HiTESTER FT3405, FT3406

Model No. (Order Code) (Note)

FT3405 FT3406

(with analog output, pulse output)

Accessories: Instruction manual ×1, Reflective tape 9211 ×1 sheet (30 pieces/ 12 mm (0.47 in) × 12 mm (0.47 in) per piece), Carrying case C0202 ×1, LR6 (AA) alkaline battery ×2, *FT3406 only: Output cord L9094 ×1





Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies



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