



TACHO HITESTER FT3405, FT3406

Environmental Measuring Instruments









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

✓ DROP PROOF

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 long-term measurements.









Measure signal variations with a waveform recorder or data logger by using the FT3406's analog output **Waveform Recording** 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. object to be TACHO HITESTER measured FT3406 Analog output Output cord 9094 (FT3406 only) When connecting with Model 8430-20, the output side of the cord must be further Pulse output Reflective tape 9211 processed to fit the instrument. MEMORY HILOGGER 8430-20

Specifications

Guaranteed accuracy period: 1year

Measurement method	Using red visible-spectrum light and reflective tape or a reflective plate (Z5003 Contact Adapter)	
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, EN61000-3-2, EN61000-3-3 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 $\pm 5^{\circ}$ 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.

[Tacho Testing]

	MODE	Non-contact		Contact	
I	IODL	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
	. /	2000 to 19999	2000 to 19990	2000 to 19999	2000 to 19990
		20000 to 99990	20000 to 99990		
	r/s	0.5000 to 1.9999		0.2500 to 1.9999	
		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
Count	(Input conditions: Up to rotational speed measurement upper limit)

[Cycle Speed]

MODE	Contact		
MODE	AVG=ON	AVG=OFF	Up to 9999
Cycle	1.500 to 19.999		10000 count
(m/	20.00 to 199.99	15.00 to 199.90	20000 count (r/min mod
min)	200.0 to 1999.9	200.0 to 1999.0	Period mea
Cycle	0.0250 to 1.9999	0.2500 to 1.9990	only
-	2.000 to 19.999	2.000 to 19.990	
(ms)	20.00 to 33.30	20.00 to 33.30	

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	
Offiny	above-menuo	neu accuracy

Bundled Accessories

Reflective tape 9211 (1 sheet) Output cord 9094 (FT3406 only) Carrying case



Option



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