

TT3000 Specifications

Item		Details			
Measuring method		Ultrasonic pulse propagation time difference			
Measuring object		Bolt axial tension			
Applicable bolt length		5.00~25000.00 mm			
Applicable bolt diameter		M5 or more (Optional ultrasonic sensor covers M8 or more, M14 or more size)			
Ultrasonic wave frequency		1 ~ 20MHz			
Range of speed		500 ~ 20,000m/s			
Measuring items		Bolt axial tension / Bolt Initial Length / Elongation /			
		Stress / Traveling Time			
Resolution	Axial tension	0.1kN / 0.01kN (Selectable)			
	Time	0.1ns			
	Elongation	0.0001mm			
Data updating	Measurement	0.04sec (Shortest time)			
Data upuating	Screen	0.2sec	Ultra	sonic sens	sor probe
Capacity of data memory		2000 bolts, Upto 50 different type of bolts			
Bolt temperature correction		Key Input System, -100 to +500 C degree/Auto, Thermocouple Unit			Sensor probe
Detection method		Full wave, Positive half wave, Negative half wave, RF wave	Magnathal	dau	
Display		Color TFT 7.5, 640 x 480 dots, Touch panel in a resistance film system	Magnet hole		
External interface		Type K thermocouple Input - 1ch, USB - 1ch for serial communication, SD Card, SD/SDHC/SDXC, up to 64GB - 1ch, LAN (TCP / IP) :1ch, VGA single monitor output - 1ch, Photo coupler inlet 4ch/outlet 4ch, Analog output 4-20mA 1ch, Max. load resistance 500Ω, Encoder input - 1ch			Bolt holder
Power supply		AC Adapter 100 - 240V, Output DC12V 60W Built-in battery 11h usage, 4h battery charging Enable to charge by AC adapter during use	Part No.	Model 5C6.4N	Appricable bolt size M8 and more L1<50mm
Operating temperature (Body)		-10 to +60 C degree under AC adapter operation, 0 to +40 C degree under battery operation with no condensation	608	5C12.7N comes with T	M14 and more L1<2m
Dimensions		H168.1 x W250 x D64mm (Not including projection parts)			
Weight		1.56kg (Including a battery and a carring handle)			
Case material		ABS			
Waterproof/dust proof		IP 20 when closing battery lid			
Regulation		CE Low voltage directive : 2014/35/EU, EMC directive 2014/30/EU, RoHS 2 directive 2011/65/EU			
Language		English/Japanese			
Standard accessories		Operation manual, Calibration test result, Traceability chart, AC Adapter, Li-Ion battery, USB cable, SD card, Power cable, sensor probe cable, sensor probe, Carring handle, Aluminum case			

■AFC-20G2 Axial Tension Calibrator (Optional)

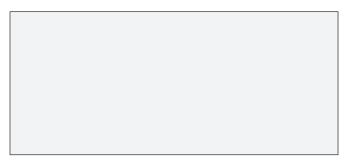
To calibrate ultrasonic tension meters, TT series

- \checkmark Can add measuring axial tension to the bolt without tightening the bolt.
- \checkmark The measuring axial tension can be easily and repeatedly applied by the hydraulic pump operation.
- ✓ A variety of sizes and length of the bolts can be measured by the attached bolt measurement jigs.

AFC-20G2 Specifications

AFC-20G2 Spec	fications	Accuracy±2%+1digit		
Item		Details		
Measurement Range	Min. ~ Max.	20 ~ 200		
[kN]	1 digit	0.01		
		Less than φ20mm, Bolt nominal length 45 to 300		
Available Bolt Size	M10 Standard accessory	45 ~ 80		
(Reference) [mm]	M16 Standard accessory	50 ~ 85		
	M20 Standard accessory	70, 87, 175, 187, Max. 300		
Dimensions	Height	451		
	Width	438 (Body 300)		
[mm]	Depth	409		
Weight [kg]		55		
Power supply AC[V]		100 ~ 240V ± 10% 50 / 60Hz		
Temperature in use		0 ~ 40℃ less than 85%HR (No condensation)		

Note: Required a nut with the same strength as the measurement bolt for inspection.



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