

FMT-100WT

Digital Force Gauge for terminal connections

Features

- For tensile strength testing of wire terminals in accordance with BS, EN, DIN, IEC, UL, SAE and MIL standards
- Simple to use with automatic peak value recording, very high accuracy and reproducibility of measurement results
- Battery operation possible using integrated NiCd-accumulator (rechargeable)
- Solid design for quality control applications in laboratories and in production facilities



Details



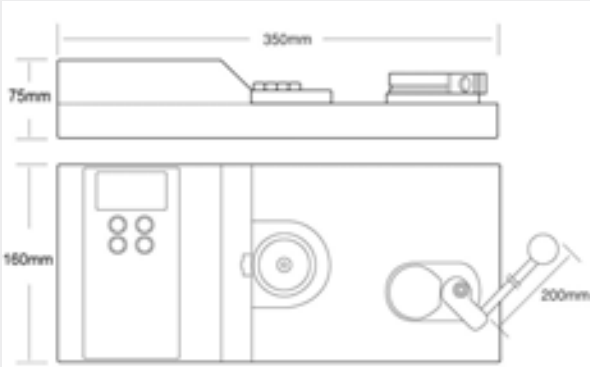
This instrument is designed for measuring tensile strength of soldered or solder-free cable joints with end sleeves, pins, solder pins or similar wire terminal components.

With its measuring range of 0...500N it is possible to test wires with cross sections between 0,05mm² (AWG 30) and 10mm² (AWG 8).

Test samples are inserted into the receptacle adaptor, which has 12 different slot widths (from 0.5mm to 6.0mm), covering all the prevalent wire strengths and terminal types. The traction force is applied by an easy gliding lever system which simultaneously clamps the wire and creates a consistent pull with minimal effort.

The traction force is collected at an accuracy of +/-0,5% and is shown on the display at a resolution of 0,1N. The peak value, at which the cable is torn, will be automatically saved in the memory.

Order Info



Standard

FMT-100WT Instrument with terminal adapter and easy-glide clamp and pull lever assembly, universal AC-adaptor /-charger and operation manual.

Option

FMT-110 WT as above, subject additional RS232-Interface and appropriate connection cable for serial I/O port (9p-D-Sub).

Spec

FMT-100WT

FMT-110WT

		FMT-100WT	FMT-110WT
Measuring Range		0,0...500,0 N	
Wire Diameter	Terminal adapter width	0,5 0,8 1,0 1,3 1,5 2,0 2,5 3,0 3,5 4,0 5,0 6,0 mm	
	Clamping device	0,1 ... 6,0 mm (continuously variable)	
	Dia. range IEC 60352-2	Cross section 0,05 ... 10 mm ² (AWG8...30)	
	Dia. range SAE AS7928 II	AWG 12 ... 28	
Resolution		0,1 N	
Accuracy	@ 23°C (F.S.)	+/- 0,5% (+/- 1/2 digit)	
	Tk	automatic ally readjustment while starting	
Operation Mode	Standard	displays the actual value in N kgf lbf	
	Peak	displays the peak value in N kgf lbf	
Overload	max. admissible	200 % (F.S.) alarm at 120% (F.S.)	
Display	Type	LCD, 4-digit, 12mm high	
	Update time (Standard)	1000 msec 500 msec 333 msec 200 msec 100 msec 50 msec (selectable)	
	Update time (Peak)	1 msec	
Memory		Peak value	
Power Supply	Type	internal NiCd-battery (up to 12h) AC-adapter /-charger 100...240VDC (50Hz)	
Interface	RS232C	without	Baud rate selectable 2,4 kB 4,8 kB 9,6 kB 19,2 kB
	Analogue output	without	-1 ... 0 ... +1 VDC
Temperature Range	Operation	0°... 40° C	
	Storage	-20°... 60° C (rF < 80%)	
Protection Code		IP 40	
Weight		app. 14 kg	
Dimensions	LxWxH (without lever)	350 x 160 x 65 mm	
Housing Material		anodised aluminium, surface tempered steel , stainless steel V2A	