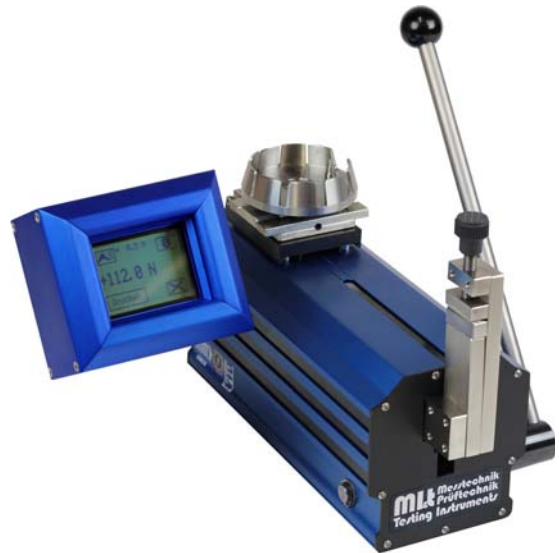## General Information:

- Force Tester for pull and press force tests in material testing and quality control, e. g. for pull-off test at crimped terminals, connectors, components, etc.
- Easy to operate and space-saving testers.
- Manual operation by hand lever.
- **Model FTC** with hand lever and cable clamping fixture with automatic gripping during hand lever actuation.
- **Model FTH** with hand lever and load slide with precise linear motion, load slide stroke ca. 50 mm, quick change tool fitting on measuring point and load slide for clamping tool and test fixture assembly.
- Maintenance-free and durable all metal construction.
- 4 types with different measuring ranges are available for selection of highest possible measuring accuracy for the respective application.
- Accuracy class 0.25
- Easy to operate and space-saving tester.

- Indication and operation of the measuring system via durable infrared sensor screen with dot matrix LCD-Display.
- High measuring accuracy and repeatability.
- 10000 Hz internal update rate for exact force readings.
- Peak Point Mode with indication of the highest measured force value.
- Tracking Mode with indication of current force values.
- Tare compensation.
- Set point capability.
- Measured value memory and real time clock.
- Optical and acoustic overload indication.
- Serial port for data output of measured values.
- Setup menu for internal parameter setting and adjustment.
- Mechanical overload protection of load cell up to 700 to 2000% of nominal load (according to range).
- Quick change tool mounting adapters for tool and test fixture assembly.

Model Overview FTC, FTH:

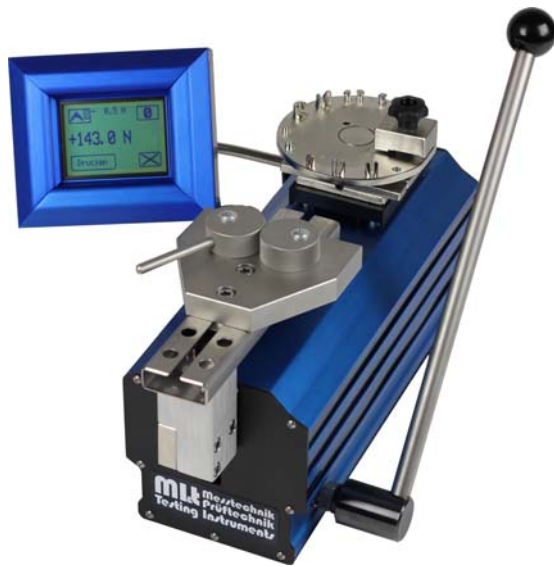| Type	Indication Range [N]	Resolution [N]
5	0- 50	0.01
10	0- 100	0.02
25	0- 250	0.05
50	0- 500	0.1

FTC 50 with SG 80 and automatic cable clamping fixture

Clamping Tools and Test Fixtures:

Turntable	UDT 100
Clamping Crown	SG 80
Quick Action Grippers	KSH-6, KSP-8, SHA-12, SHA-20
Cable Clamps	MK-8, DKS-20
Comb Tools	KW 1, KW 2
Miniature Grips	FSEL
Tool Set	KBP for testing cable tie pistols
Step Cone	KBS for testing cable ties
Tool Set	KLH for insertion and extraction tests

Please see our catalogue for additional standard tools and tool specifications. Customer-specific special test fixtures and tools on request.

FTH Tester with SG 80 and MK-8/A

MI&T GmbH Mess- und Prüftechnik
Measuring Instruments & Testers
Krokusstr. 9, D- 12357 Berlin   info@MIT-Tester.de
Tel.: +49 (0)30 76 68 93 81   www.MIT-Tester.de
MI&T Messtechnik & Prüftechnik

FTH 50 with UDT 100 and DKS-20/A

Technical Specifications:

Load device FTC Tester:

Capacity:	500 N.
Dimensions:	ca. 116x275x124 mm (WxDxH);
Weight:	ca. 8 kg;
Construction:	Maintenance-free all metal construction.
Housing:	Aluminium
Finish:	anodised oxide layer, blue.
Load device	parallel stroke of load slide, precise linear motion, hand lever actuation, cable clamping fixture with automatic gripping during hand lever actuation, quick change tool mounting adapter on measuring point for tool and test fixture assembly.
Load slide stroke:	ca. 50 mm.

Load device FTH Testers:

Capacity:	500 N.
Dimensions:	ca. 116x275x124 mm (WxDxH);
Weight:	ca. 8 kg;
Construction:	Maintenance-free all metal construction.
Housing:	Aluminium
Finish:	anodised oxide layer, blue.
Load device	Parallel stroke of load slide, precise linear motion, hand lever actuation, load slide with precise linear motion, quick change tool mounting adapters on measuring point and load slide for clamping tool and test fixture assembly.
Load slide stroke:	ca. 50 mm.

Technical Specifications:

Model Designations: FTC, FTH:

Indication Ranges:	0- 50/100/250/500 N.
Resolution:	5000 increments, see model overview
Rel. accuracy error:	$\leq \pm 0.25\% \pm$ LSD (within the measuring range).

Force Measuring System FMS:

Control Unit:

Dimensions:	ca. 125x105x70 mm (WxDxH);
Supply voltage:	12-24 V DC.

Force Transducer:
DMS-load cells type MWM 80108V with integrated AD-converter and RS485 bus. Overload protection 700 to 2000% according to nominal load of load cell.
Internal measuring rate: 10000 Hz;

Display:
Dot matrix LCD display with LED background lighting, 128x64 pixel, 56.3x38.4 mm. LCD update rate: 5 Hz.

Operation:
Operation of all displayed keys via infrared sensor screen.

Evaluation:
Operating Modes: Tracking Mode and Peak Point Mode;
Tare compensation; Setpoint capability;
Measured value memory for 10000 measured values;
Single and listing output via serial port;
Real time clock for printout with date and time.
Language for printout selectable: D, E.
Overload indication;
Setup Menu internal parameter selection and adjustment of measuring system.

Serial Port:

RS232C	selectable parameters: 300-76800 Baud, 7/8 data bits, 1/2 stop bits, parity: none/even/odd. connector: RJ45.

Optional Accessories:

- Mini Table Printer
- Data Transmission Cable for printer connection
- Data Transmission Cable for PC connection
- Keytast Interface
- Please see our catalogue for additional accessories.

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