



225171008

**Computerized
Force Gauge**



MICROTECH 225171008 Computerized Force Gauge User Manual

[Home](#) » [microtech](#) » MICROTECH 225171008 Computerized Force Gauge User Manual 

Contents

- [1 MICROTECH 225171008 Computerized Force Gauge](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 SPECIFICATION](#)
- [5 TECHNICAL DATA](#)
- [6 DATA TRANSFER](#)
- [7 MAIN SCREEN](#)
- [8 FUNCTIONS](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)



MICROTECH

MICROTECH 225171008 Computerized Force Gauge



Product Information

Specifications:

Item No	Range	Resolution	Accuracy
225170017	1-10 N	0.1-1 kg / 0.2-2 lbF	
225170057	1-50 N	0.2-5 kg / –	
225170107	2-100 N	0.5-10 kg / 1-11.5 lbF	

Product Usage Instructions

Switching On and Off:

To switch on the device, press the button for 1 second. To switch off the device, press the button for 3 seconds or it will auto-switch off.

Data Transfer:

Data transfer can be done through programming via the menu options provided.

Battery:

The device comes with a built-in rechargeable Li-Pol battery.

Data Transfer Modes:

The product offers 3 modes of data transfer: USB, and 2 wireless modes.

Wireless Connection to MDS App:

Data can be wirelessly transferred to the MICROTECH MDS app for Windows, Android, iOS.

FAQ:

- **Q: How do I connect the device wirelessly to my PC or tablet?**

A: You can connect wirelessly by tapping on the touchscreen or pushing a button. Data can also be transferred from memory, in the MDS app, or from a paired device.

- **Q: What does the Analog Scale feature do?**

A: The Analog Scale feature provides a visual representation of the measured data on a scale displayed on the screen.

- **Q: How can I save and export measuring data?**

A: Measuring data can be saved to the internal device memory by touching the data area on the screen or by pressing a button. Data can then be sent wirelessly or via USB connection to Windows PC, Android, or iOS devices. Exporting statistics is also possible in XLS or CSV formats.

SPECIFICATION

FORCE computerized gauge

Item No	Range			Reso- lution	Accu- racy
	N	kg	lbF	N	%
225170017	1-10	0,1-1	0.2-2	0,001	0.3
225170057	1-50	0,2-5	1-11,5		
225170107	2-100	0,5-10	1-22,5		
225170507	5-500	1-50	2-112		

FORCE computerized gauge with external sensor

Item No	Range			Reso- lut ion	Accu- racy	S-type External sensor
	N	kg	lbF	N	%	mm
225170018	10-1000	1-100	10-225	0,1	0.3	75×50
225170058	10-5000	1-500	10-1120			
225170108	20-10000	2-1000	20-2250			
225170508	50-50000	5-5000	50-11200			108×76
225171008	50-100000	5-10000	50-22500			178×130

TECHNICAL DATA

Parameters	
LED display	color 2,4 inch 320×240
Indication system	MICS 4.0
Power supply	Rechargeable Li-Pol battery 2000 mAh
Charging port	micro-USB
Case material	Aluminium
Wireless data transfer	Long range / HID
USB data transfer	USB HID

MAIN INFO



SWITCH ON DEVICE - button push (1 sec)
SWITCH OFF DEVICE - button push (3 sec)/ auto switch off
DATA TRANSFER - programming throw menu



BUILT-IN BATTERY - rechargeable Li-Pol battery

DATA TRANSFER

3 MODES OF DATA TRANSFER (USB + 2 WIRELESS MODES)

WIRELESS CONNECTION TO MDS APP

WIRELESS data transfer to MICROTECH
MDS app for Windows, Android, iOS



FREE SOFTWARE



NO DONGLE



SAVING DATA
TO XLS. CSV
FORMATS



TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE



TRANSFER DATA TO
EXCEL OR OTHER
TABLE EDITORS



SAVING
GRAPH



WIRELESS HID CONNECTION USB HID CONNECTION



NO DONGLE



WIRELESS HID and USB HID data
transfer (like keyboard) direct to any
customers app and system



TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE

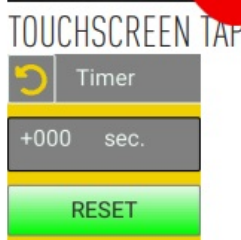
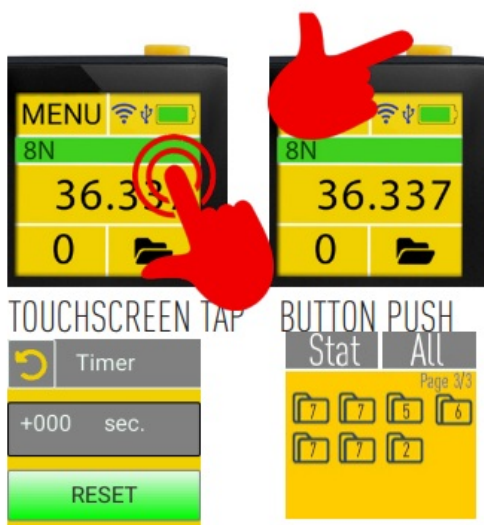


TRANSFER DATA TO
EXCEL OR OTHER
TABLE EDITORS



TRANSFER DATA
TO ANY BROWSWE
OR APP

7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



BY TIMER



FROM MEMORY



SELECTED FORCE

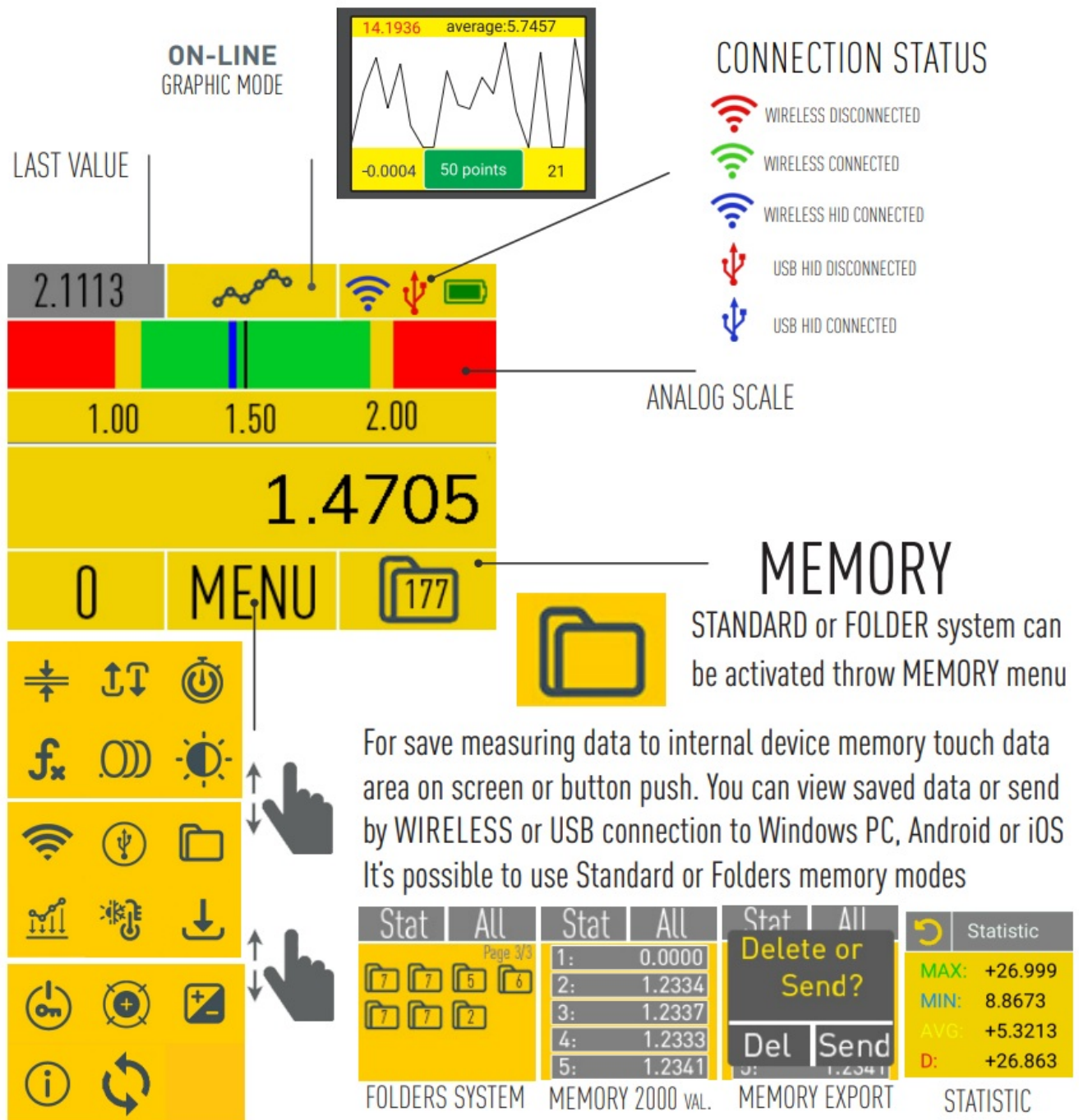


IN MDS APP

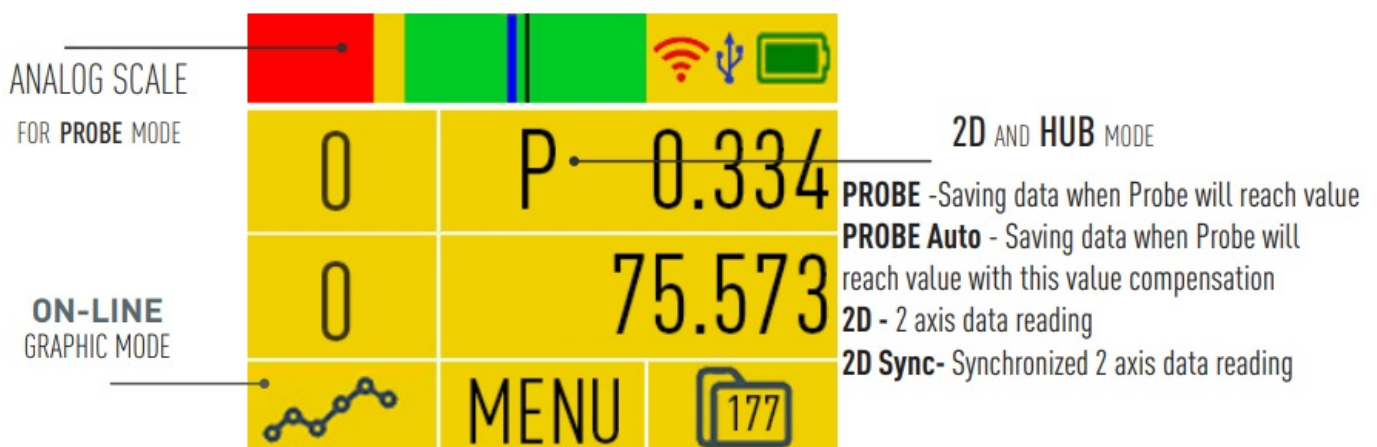


FROM PAIRED DEVICE

MAIN SCREEN



MAIN SCREEN on 2D mode



FUNCTIONS

COLOR INDICATION LIMITS ON MAIN SCREEN Go NoGo

LIMITS mode GO/NOGO



MAX - **NoGo** more Upper limit

MIN - **NoGo** less Lower limit

RANGE - **Go** between Limits

SCALE - Analog scale active

>	2.000
<	3.000
%	20
SCALE	RES

Upper limit

Lower limit

Yellow zone on analog scale

PEAK mode MAX/MIN/MODULE/RANGE



DISABLE - non active mode

ENABLE - activating mode

REFRESH - refresh peak value according timer

Max/Min
Enabled
MAX

MAX - indicating MAX measured value

MIN - indicating MIN measured value

MODULE - indicating MAX module

RANGE - indicating deviation between MAX and MIN

SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

TIMER mode



Timer
0.000 sec
Reset

Select timer period

Reset to disactivate mode

FORMULA mode



Formula
Ax^2+Bx+C
Set Argv

Select FORMULA Type (Math, Radius or other)

Select arguments

RESOLUTION selection



Resolution
X.0000
mm

Resolution selecting

N/kg/LbF/oz conversion

DISPLAY settings



Sleep OFF (15 s low brightness off, sleep off)

Sleep 15s (15 s low brightness on, sleep off)

Sleep ON (15 s low brightness on, sleep on)

Display
Angle 270
Sleep ON

Display rotation 0°, 90°, 180°, 270°

Brightness level

LINEAR error compensation



Re-calculation detail size to calibration conditions (20°C)

O: 17.251	
C: 17.258	
UP	OK
DN	RES

actual values

correct values by up&down button

confirm point correction

Linear correction error's on device

WIRELESS data transfer



Reconnection button
Wireless power
regulation



ON - WIRELESS data transfer to MDS App for Android, iOS, Windows
HID- WIRELESS HID direct transfer data to any App in Windows, MacOS, Linux, Android devices (like keyboard). Configure data format in USB sub-menu
2D-S - Slave device on WIRELESS connection on HUB mode
2D-M - Master device on WIRELESS connection on HUB mode

USB OTG data transfer



Connect USB cable to PC & Activate USB HID connection mode
Select setting of data transfer
Direct transfer data to any App in Windows, MacOS, Linux, Android devices
Configuring data transfer Dot/Comma and Tab/Arrow Down/CR+LF

PROBE MODE

HUB connection



A.C.on - Auto Connection active
A.C.off - Auto Connection no active

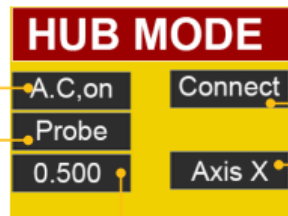
PROBE -Saving data when Probe will reach value

PROBE Auto - Saving data when Probe will reach value with this value compensation

2D - 2 axis data reading

2D Sync- Synchronized 2 axis data reading

Disable - switch off modes



External Wireless device connection

Axis priority selecting

Setting PROBE limit value

2D MODE

MICROTECH

innovative measuring instruments

61001, Kharkiv, Ukraine, str. Rustaveli, 39

A.C.on - Auto Connection active

A.C.off - Auto Connection no active

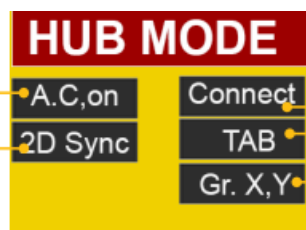
PROBE -Saving data when Probe will reach value

PROBE Auto - Saving data when Probe will reach value with this value compensation

2D - 2 axis data reading

2D Sync- Synchronized 2 axis data reading

Disable - switch off modes



External Wireless device connection

Symbol between Axis

Graphic mode indication setting

LINK to app's

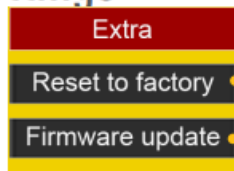


QR Link to MICROTECH web site page
with MDS Software download

- Android, iOS, Windows versions
- Free and Pro versions
- Manuals



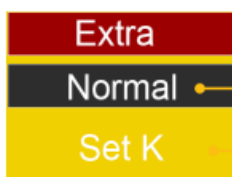
RESET to Factory settings



Push 10 times to RESET device to factory settings

Push 10 times to FIRMWARE UPDATE

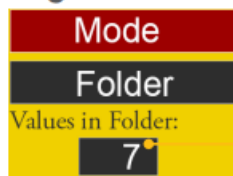
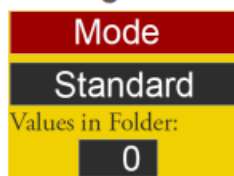
EXTRA



Selecting normal or inverted axis mode (+/- value indication)

Coefficient setting (for distributor and calibration only)

MEMORY manager setting



Activating STANDARD
or FOLDER SYSTEM

Values in each Folder



FOLDERS SYSTEM

CALIBRATION date info



Push for change calibration date info

Device INFO



Information about device

- Firmware version

- MAC adress for WIRELESS connection



UP TO 100000N
EXTERNAL SENSOR



Tel.: +38 (057) 739-03-50

www.microtech.ua

tool@microtech.ua

Documents / Resources

	MICROTECH 225171008 Computerized Force Gauge [pdf] User Manual 225170017, 225170057, 225170107, 225170018, 225170058, 225170108, 225170507, 225170508, 225171008, 225171008 Computerized Force Gauge, 225171008, Computerized Force Gauge, Force Gauge
---	--

References

- [Home - MICROTECH](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.