

# COMPUTERIZED FORCE GAUGE USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015

**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- lution	Accu- racy	S-type External sensor
	N	kg	lbF	N	%	mm
225170018	10-1000	1-100	10-225	0,1	0.3	75x50
225170058	10-5000	1-500	10-1120			
225170108	20-10000	2-1000	20-2250			
225170508	50-50000	5-5000	50-11200			
225171008	50-100000	5-10000	50-22500			

## TECHNICAL DATA

Parameters	
LED display	color 2,4 inch 320x240
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



MICROTECH

## 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



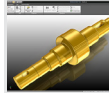
FREE SOFTWARE



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



TRANSFER DATA TO  
CAD, SPC OR OTHER  
SOFTWARE



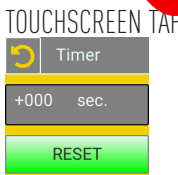
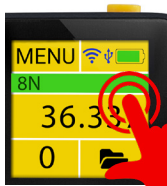
TRANSFER DATA TO  
EXCEL OR OTHER  
TABLE EDITORS



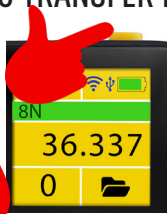
TRANSFER DATA  
TO ANY BROWSE  
OR APP

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

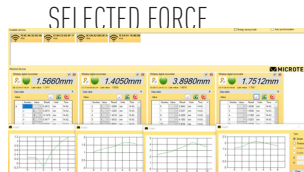
## 7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



BY TIMER



FROM MEMORY



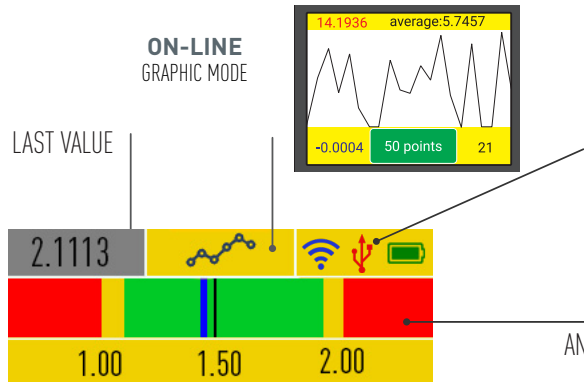
IN MDS APP



FROM PAIRED DEVICE



# MAIN SCREEN



## CONNECTION STATUS

- WIRELESS DISCONNECTED
- WIRELESS CONNECTED
- WIRELESS HID CONNECTED
- USB HID DISCONNECTED
- USB HID CONNECTED

0 MENU 177

## MEMORY



STANDARD or FOLDER system can be activated throw MEMORY menu

For save measuring data to internal device memory touch data area on screen or button push. You can view saved data or send by WIRELESS or USB connection to Windows PC, Android or iOS It's possible to use Standard or Folders memory modes

Stat	All
7	7
5	6
7	2

FOLDERS SYSTEM

Stat	All
1:	0.0000
2:	1.2334
3:	1.2337
4:	1.2333
5:	1.2341

MEMORY 2000 VAL.

Stat All  
Delete or Send?

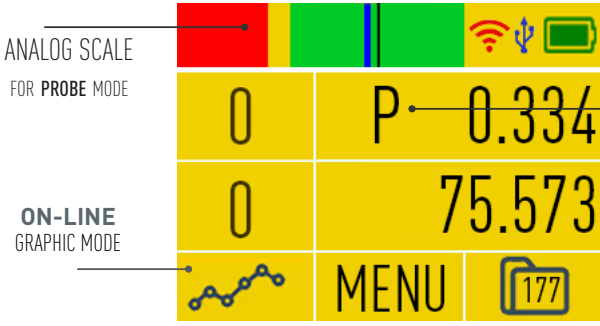
Del Send

MEMORY EXPORT

Statistic	Value
MAX:	+26.999
MIN:	8.8673
AVG:	+5.3213
D:	+26.863

STATISTIC

# MAIN SCREEN on 2D mode



## 2D AND HUB MODE

- 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

# FUNCTIONS



MICROTECH

## LIMITS mode GO/NOGO



MAX - **NoGo** more Upper limit  
 MIN - **NoGo** less Lower limit  
 RANGE - **Go** between Limits  
 SCALE - Analog scale active

## COLOR INDICATION LIMITS ON MAIN SCREEN **Go NoGo**

>	2.000	Upper limit
<	3.000	Lower limit
%	20	Yellow zone on analog scale
SCALE	RES	

## 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

## TIMER mode



## SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Timer
0.000 sec
Reset

Select timer period  
 Reset to deactivate 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

## Linear correction error's on device

actual values  
 correct values by up&down button  
 confirm point correction



## WIRELESS data transfer

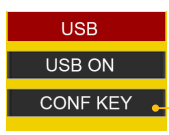


Reconnection button  
Wireless power regulation



**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

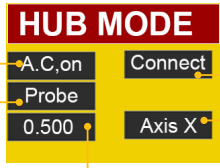


Connect USB cable to PC & Activate USB HID connection mode  
Select setting of data transfer  
Direct transfer data to any App in Windows, MacOS, Linux, Android devices  
Configuring data transfer Dot/Comma and Tab/Arrow Down/CR+LF

## HUB connection



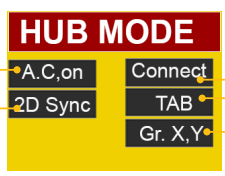
**A.C.on** - Auto Connection active  
**A.C.off** - Auto Connection no active  
**PROBE** -Saving data when Probe will reach value  
**PROBE Auto** - Saving data when Probe will reach value with this value compensation  
**2D** - 2 axis data reading  
**2D Sync**- Synchronized 2 axis data reading  
**Disable** - switch off modes



### PROBE MODE

External Wireless device connection  
Axis priority selecting  
Setting PROBE limit value

**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



### 2D MODE

External Wireless device connection  
Symbol between Axis  
Graphic mode indication setting

# FUNCTIONS

LINK to app's



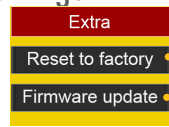
QR Link to MICROTECH web site page with MDS Software download  
- Android, iOS, Windows versions  
- Free and Pro versions  
- Manuals



**MICROTECH**

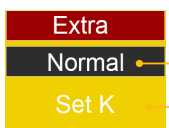


## RESET to Factory settings



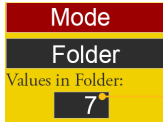
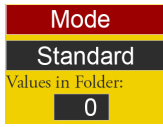
Push 10 times to RESET device to factory settings  
Push 10 times to FIRMWARE UPDATE

## EXTRA



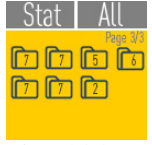
Selecting normal or inverted axis mode (+/- value indication)  
Coefficient setting (for distributor and calibration only)

## MEMORY manager setting



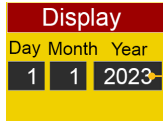
Activating STANDARD or FOLDER SYSTEM

Values in each Folder



FOLDERS SYSTEM

## CALIBRATION date info



Push for change calibration date info

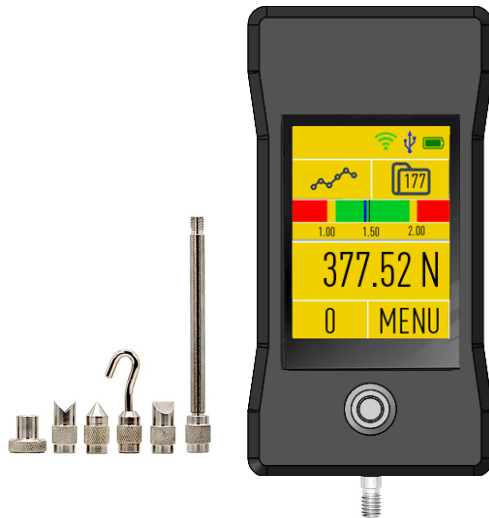
## Device INFO



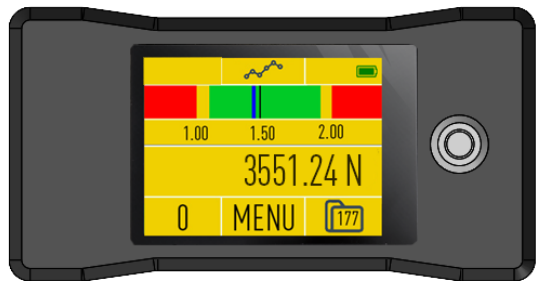
Information about device  
- Firmware version  
- MAC adress for WIRELESS connection



**MICROTECH**



UP TO 100000N  
EXTERNAL SENSOR



**MICROTECH**

innovative measuring instruments

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