



MICROTECH

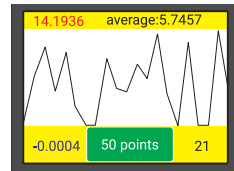
PAT.UA132139

PAT.UA10184772

MEASURING HUB
MICROTECH DEVICES CONNECT



WIRELESS TO MDS APP
WIRELESS HID+MAC
USB HID



WIDE RANGE EXTERNAL RADIUS GAUGE

USER MANUAL



ISO17025:2017

ISO 9001
BUREAU VERITAS
Certification





SPECIFICATION

Item No	Radius		Type	Reso- lution µm	Base length mm	Accuracy %	Measuring HUB	Graphic	Analog scale	Preset	Go/NoGo	Max/Min	Formula	Timer	Temp comp	Linear corr	Calibr date	FW update	Recharge	Memory	WIRELESS	USB	Display			
	Range																									
	mm	inch																								
1250530256	60-2550	2.5-100"	external	1	600	0,1%	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
1250531156	100-11200	4-450"			1200		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1250533356	200-32200	8-1290"			2000		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TECHNICAL DATA

Parameters	
LED display	color 2,4 inch 320x240
Indication system	MICS 4.0
Power supply	Rechargeable Li-Pol battery 500 mAh
Charging port	micro-USB
Case material	Aluminium
Wireless data transfer	Long range / HID
USB data transfer	USB HID

MAIN INFO



BUILT-IN BATTERY - rechargeable Li-Pol battery

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

DOWNLOAD APP

DOWNLOAD MDS APP FOR MICROTECH DEVICES
 WIRELESS CONNECTION FROM www.microtech.ua,
 GooglePlay & App Store



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
 Windows iOS android
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



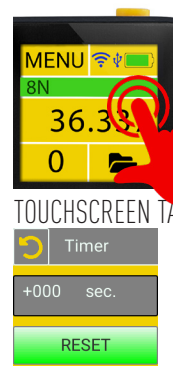
NO DONGLE

- Windows
- iOS
- android
- LINUX
- macOS

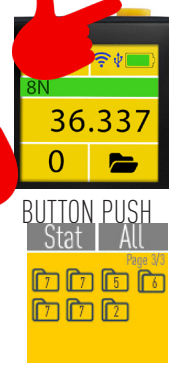
WIRELESS HID and USB HID data transfer (like keyboard) direct to any customers app and system

- TRANSFER DATA TO CAD, SPC OR OTHER SOFTWARE
- TRANSFER DATA TO EXCEL OR OTHER TABLE EDITORS
- TRANSFER DATA TO ANY BROWSE OR APP

7 WAYS HOW TO TRANSFER DATA TO PC OR TABLET



BY TIMER



FROM MEMORY



IN MDS APP



MAIN SCREEN

ON-LINE GRAPHIC MODE

LAST VALUE

2.1113

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

ANALOG SCALE

1.00 1.50 2.00

1.4705

MEMORY

0 MENU 177

STANDARD or FOLDER system can be activated through 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

FOLDERS SYSTEM MEMORY 2000 VAL. MEMORY EXPORT STATISTIC

Stat	All	Stat	All	Stat	All	Statistic
1:	0.0000	2:	1.2334	MAX:	+26.999	
2:	1.2334	3:	1.2337	MIN:	8.8673	
3:	1.2333	4:	1.2333	AVG:	+5.3213	
4:	1.2341	5:	1.2341	D:	+26.863	

MAIN SCREEN on 2D mode

ANALOG SCALE FOR PROBE MODE

ON-LINE GRAPHIC MODE

0 P 0.334

0 75.573

0 MENU 177

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

LIMITS mode GO/NOGO

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

MAX - NoGo more Upper limit
MIN - NoGo less Lower limit
RANGE - Go between Limits
NONE - Analog scale active

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

SCALE RES

PEAK mode MAX/MIN

DISABLE- non active mode
ENABLE- activating mode
REFRESH - refresh peak value according timer

INDICATION AND SAVING **MAX** OR **MIN** VALUES

Max/Min
Enabled
MAX
MIN

MAX - indicating MAX measured value
MIN - indicating MIN measured value

TIMER mode

SAVING DATA TO MEMORY OR SENDING WIRELESS/USB BY TIMER

Timer
0.000 sec Select timer period
Reset Reset to deactivate mode

FORMULA mode

Formula
Ax²+Bx+C Select FORMULA Type (Math, Radius or other)
Set Argv Select arguments

RESOLUTION selection

Resolution
X.0000 Resolution selecting
mm mm/inch 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 Display rotation 0°, 90°, 180°, 270°
Sleep ON Brightness level

LINEAR error compensation

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

O: 17.251 actual values
C: 17.258 correct values by up&down button
UP OK confirm point correction
DN RES

Linear correction error's on device

TEMP compensation

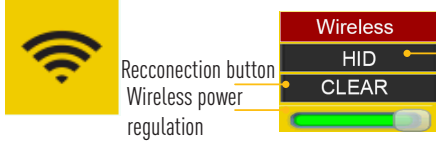
Manual Temperature setting

Temp.com.
Cu, Cu alloys
27.5°C RES

4 types of material for selection:
- Glass, Quartz
- Stainless steel
- Cuprum and alloys
- Alluminium and alloys

FUNCTIONS

WIRELESS data transfer



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

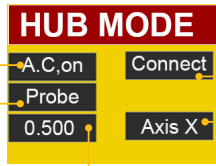


Connect USB cable to PC & Activate USB HID connection mode
 Select setting of data transfer
 Direct transfer data to any App in Windows, MacOS, Linux, Android devices
 Configuring data transfer Dot/Comma and Tab/Arrow Down/CR+LF

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

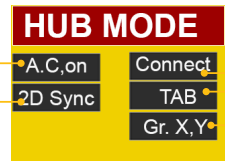


PROBE MODE
 External Wireless device connection
 Axis priority selecting

Setting PROBE limit value

2D MODE

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

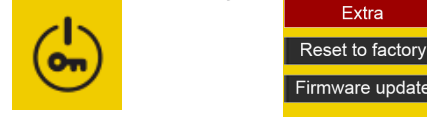
FUNCTIONS

LINK to app's



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

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)

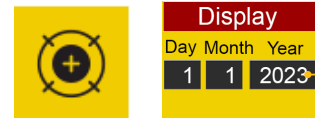
MEMORY manager setting



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

INDUSTRY 4.0 INSTRUMENTS



0,1µm



FORCE CONTROL
1-20N

1µm



0,1µm



0,1µm



1µm

MICROTECH

innovative measuring instruments

61001, Kharkiv, Ukraine, str. Rustaveli, 39

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

www.microtech.ua

tool@microtech.ua

Change without prior notice