



COMPUTERIZED PUSH PULL GAUGE USER MANUAL



Calibration ISO 17025:2017



ISO 9001:2015



Item No	Range		Resolution	Accuracy	Peak function	Indication	Data output	Calibration
	N	lbF	N	%			Wireless	ISO 17025
225170010	1-10	0.2-2	0,001	0.25	Electronic PEAK* function	computerized MICS system with 1,54" touchscreen	Long range	+
225170050	2-50	1-11,5	0,001	0.25			Long range	+
225170100	5-100	1-22,5	0,001	0.25			Long range	+
225170500	10-500	2-112	0,001	0.25			Long range	+

* Activate MIN/MAX function on MICS indication system to use Electronic PEAK function





Parameters	
LED display	color 1,54 inch
Resolution	240x240
Indication system	MICS 3.0
Power supply	Rechargeable Li-Pol battery
Battery capacity	450mAh
Charging port	micro-USB
Case material	Aluminium
Buttons	Switch (Multifuntional), Reset
Wireless data transfer	Long range data transfer

CHARGING



BUILT-IN BATTERY - rechargeable Li-Pol battery

For charging connect magnetic USB cable
Charging process indicating
on Battery status
(switch on device)



Activate WIRELESS data transfer in WIRELESS menu

Switch on Wireless data transmission

Activating multifunctional button to save value to memory or send data by touchscreen or button push



Connect instrument with **MICS** indication system to Tablet or PC

Send data to Tablet or PC:

- by Touchscreen
- by Multifunctional button push (activated in Wireless menu)
- by Timer (activated in Timer menu)
- from Internal Memory

MEMORY

For save measuring data to internal memory touch data area on screen or short button push. You can view saved data throw menu or send Wireless connection to Windows PC, Android or iOS devices.

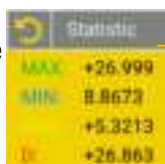
Basic STATISTIC functions:

MAX - maximum saved value

MIN - minimum saved value

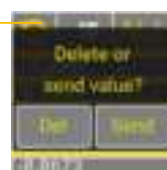
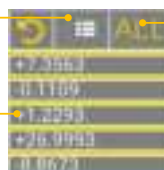
AVG - average value

D - variance VAR(x)



Saved values

Each value can be Deleted or Send to application

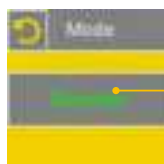


Button ALL select all values

All values can be Deleted or Send to application

MEMORY settings

Memory sub-menu



Selecting Standard mode or No saving data to internal memory



UP TO 50M

WIRELESS CONNECTION



USB-DONGLE



Windows



iOS



ANDROID

DOWNLOAD



DOWNLOAD



DOWNLOAD



**SAVING DATA
TO XLS. CSV
FORMATS**



**SAVING DATA
TO XLS. CSV
FORMATS**



**SAVING DATA
TO XLS. CSV
FORMATS**



**TRANSFER DATA TO
CAD, SPC OR OTHER
SOFTWARE**



**SAVING
GRAPH**



**SAVING
GRAPH**



**TRANSFER DATA TO
EXCEL OR OTHER
TABLE EDITORS**



**VOICE
MODE**



**VOICE
MODE**

DATA TRANSFER DISTANCE FOR INTELLIGENT INSTRUMENTS

- All MICROTECH Intelligent instruments has internal memory. You can collect data to memory and when it will be necessary transfer all data to the peripheral device with no data losing.
- It's possible transfer data, like in Wireless instruments up to 15 m or up 50 m with external antenna
- USB port can be used to transfer data directly to Windows PC



**QUALITY
CONTROL
RESULTS**





USE TOUCHSCREEN TO OPERATE MENU

MENU button

MENU



Battery level

Colour can be changed
according function

-0.0000

Actual value

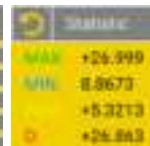
Zero setting

0

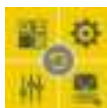


Memory

MEMORY WITH STATISTIC



MENU CONFIGURATION

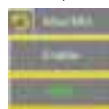


MAIN MENU



LIMITS

color Go/NoGo

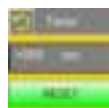


MAX/MIN

indicating max or min value



FORMULA MODE

 Ax^2+Bx+C 

ERROR COMPENSATION

mathematical correction



TEMPERATURE COMPENSATION

manual correction



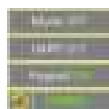
RESOLUTION

selected up to 0.0001mm



WIRELESS

modes of data transmission



USB

USB connection configuration



DEVICE SETTING

pin, reset



MEMORY SETTING

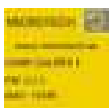


SOFTWARE

link to download app



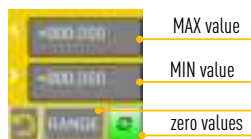
CALIBRATION DATE





LIMITS GO/NOGO

MENU SETTING



Colour indication limits

MAX - NoGo more MAX value
MIN - NoGo less MIN value
RANGE - Go between MIN & MAX
NONE - disactivating mode

MAIN SCREEN INDICATION

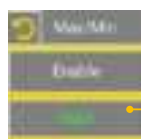


NoGo

Go

MAX/MIN

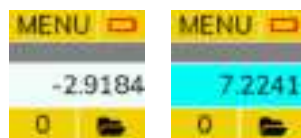
MENU SETTING



Indication and saving MAX or MIN values

ENABLE - activating mode
MAX - indicating MAX measured value
MIN - indicating MIN measured value

MAIN SCREEN INDICATION

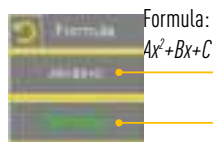


MIN

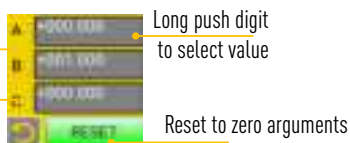
MAX

FORMULA

MENU SETTING



FORMULA Ax^2+Bx+C

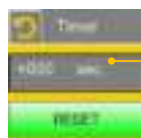


EXAMPLE OF FORMULA USING

Standard measuring	A=0, B=1, C=0
PRESET 50mm	A=0, B=1, C=50
Value magnification x3	A=0, B=3, C=0
Square value	A=1, B=0, C=0

TIMER

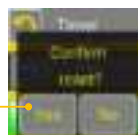
MENU SETTING



Saving data to memory or sending Wireless by Timer

Select timer period

Reset to disactivate mode





MATHEMATICAL ERROR COMPENSATION

MENU SETTING

Mathematical correction points with big error to normal values



Select all points

Add new point for error compensation



actual values

correct values by up&down button

confirm point correction



use gauge blocks or measuring machine for points correction



TEMPERATURE COMPENSATION

MENU SETTING

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



7 types of material for selection

Manual Temperature setting

7 types of material:

- glass, quartz, solid alloys
- granite, graphite
- Fe, Ni, Fe alloys
- stainless steel
- cooper, Cu alloys
- aluminium, al alloys
- acrylic sheet



RESOLUTION

MENU SETTING

MAIN SCREEN INDICATION



Resolution selecting

N/lbf conversion

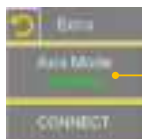
+8.0608

Selecting resolution of value on main screen and memory



EXTRA (Axis mode)

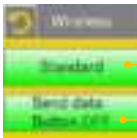
MENU SETTING

Selecting normal or inverted axis mode
(+/- value indication)Reading base reconnection for some
types of calipers



WIRELESS CONNECTION

MENU SETTING Activating or disactivating wireless data transfer



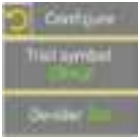
Switch on Wireless data transmission

Activating multifunctional button to save value to memory or send data by touchscreeb ur button push



USB CONNECTION

MENU SETTING USB connection mode under construction



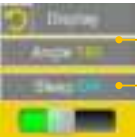
PIN & RESET

MENU SETTING Activating PIN to device setting RESET to factory settings



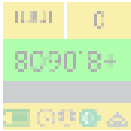
DISPLAY SETTING

MENU SETTING DISPLAY ROTATION, BRIGHTNESS, SLEEPING MODE



Display rotation 0°, 90°, 180°, 270°

- 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)

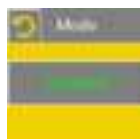




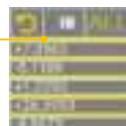
MEMORY SETTINGS

MENU SETTING

Activating or disactivating saving values to memory



Standard - saving values to memory
OFF - disable saving to memory



LINK TO SOFTWARE

MENU SETTING



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



Windows



iOS



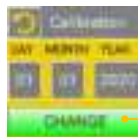
ANDROID



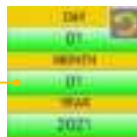
CALIBRATION DATE

MENU SETTING

Calibration date info

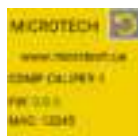


Push for change date info



DEVICE INFO

MENU SETTING



Information about device
- device name
- firmware version
- MAC adress for easy connection



LONG RANGE. 





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