

USER MANUAL BLUETOOTH





This app is available for both Android and iOS. Download the MRU4u app from the Play-store or APP-store.

Distributed By: DIAMOND SCIENTIFIC

625 Peachtree Street Cocoa, FL 32922 Phone: 1-321-223-7500



info@diamondsci.com www.DiamondSci.com





INDEX:

Analyzer Bluetooth settings	4
Mobile Bluetooth Pairing	5
Taking a measurement / adding parameters	7
Saving measurements	8
Modifying Setting	9
MRU Service	10
Device Info	10



Make sure your analyzer has the correct Bluetooth settings!



Bluetooth Settings Accessible in the Settings Menu

As shown, the bluetooth module will default to its dual-mode operation. Bluetooth connection will be available at any point during the analyzers screen-on time. The connection can be made seamlessly between Android and iOS systems.



Start the MRU4u on your phone

¢ <mark>8</mark> 🖬	🕅 🏹 🏹 📶 48% 🛢 4:34 PM
	1RU4u
	Measure
:=	Connect & Measure
	Storage
Ê	Protocols
8	Sites
	Extras
*	Service
\$	Settings
í	Device info

Press connect and measure



< <mark>S</mark> =		🗋 ପି 🕆 📶 48% 🛢 4:34 PM
40 WRU		
\$	Program 1	Nat. Gas Heavy
:≡ т	able	📈 Graph

Press connect device





Select your device

Confirm with OK

If this screen stays empty, another phone might already be paired. Disconnect the other phone first!





Select NEW device

Sometimes you will see more than one new device (if you have multiple new devices in iOS range). You can either turn off other devices in range or select "New device" until you have the right one.

		-
	MRU4u	
	Measure	
≣	Measure (AMPRO SN314061)	
Ê	Protocols	
₿	Sites	
*	Service	
\$	Settings	
()	Device info	

Once the correct device has been connected, the iOS will display the analyzer name and serial number



Taking a measurement / adding parameters

ኛ <mark>S</mark> 🖬 🖯	* N 0 8,	ⅆ 47% 🛢 4:37 PM
K MRU	AMPRO SN	309468
Zeroing		10 %
: ≡ Table	📈 G	raph

Screen while analyzer is zeroing

ኛ S 🖪 🔮 🖬 🙃	\$ 🕅 🛱 🕈 📶 95% 🛢 8:51 AM
د Measured va	alues
Search	
CO mg/m ³	
CO /0%O2 ppm	
CO /x%O2 ppm	
CO corr. mg/MJ	
Draft inH2O	
Eff. GCV %	
Eff. NCV	

Select the parameter you wish to add. Repeat this step for each additional parameter



Press to modify screen contents

S 🤇 🔮 🖬 Ö	* 10 ⊙	224	41% 🛢 🤅	5:02 PM
K 40	۰	\mathbf{V}	+	Î
≔ Table	~	' Gra	aph	
Edit meas	sured valu	es in	table	
Dewpoint °F				₽
NO ppm				ţ
NOx ppm				ţ
T-Ambient air °F				ţ
T-Gas °F				ţ
Add measure	d value			Ð
	Done			

Press "Done" to return to measurement screen

S 🗘 🔮 🖬 🔒	*[N 🏾 🔋 🖌	41% 🛢 6	5:02 PM
K AU	\uparrow	\mathbf{A}	+	Ē
≔ Table		🗸 Gra	aph	
Edit mea	sured v	alues in	table	
Dewpoint °F				←
NO ppm				←
NOx ppm				←
T-Ambient ai °F	r			₽
T-Gas °F				←→
Add measure	ed valu	Je		Ð
	Don	e		

Select and then press Done Press + for additional parameters

ኛ <mark>8</mark> 🖬 🖬 🗇	* 🕅 🏵 💲 📶 46% 🛢 4:38 PM		
< ^۲ ۳۳	AMPRO SN309468		
Program 1	Natural gas		
: ≡ Table	📈 Graph		
02 %	21.0		
CO2 %	0.0		
CO ppm	0		
Dewpoint °F	32.0		
NO ppm	0		
Stop	O2 Ref: 3% CO-Limit: 500ppm Interval: 2s		

Press "Stop" to stop the measurement





Analyzers pump stops

Additional Information

\$ <mark>8</mark> •	🕅 🏵 🔋 📶 48% 🛢 4:34 PM
	/RU4u
	Measure
≔	Connect & Measure
	Storage
Ê	Protocols
8	Sites
	Extras
*	Service
\$	Settings
()	Device info

Main page



Screen turns grey Press save to save measurement to the phone

🕄 🕞 🖬 🛱 🔹 🔊 🕅 🖉 😹 🕯 🕄 🖉
Me Protocols
16.06.2016
Program 1, Natural gas 22:04:46
Program 1, Wood 30%M. 22:02:10

Protocols

Shows saved measurements Click on any saved measurement

S 🔮 🗉	∎ ది 🔹 🔊 छ 🗟 🔹 🕯 89M
Me suc	asurement saved ccessfully
This n	neasurement:
٥	Add photo
₿	Select Site
A	Comment
ŧ	Main menu > OK

You can add a photo you can add comments Save the measurement to a site to view it



Protocols Saved measurement Displayed as "Table"



MRU 4Uジ				<
\$	Program 1 Natural gas 16.06.2016 22:04:46			
:= т	able	📈 Gra	iph 🚺	Extras
20.96				
a ^R 20.94				
8 20.92				
20.90				
0.04				
0.03				
8 0.02				
0.01				
0.00				
100				
Poison index, %				
0	03-00	22:03:30	22:04:00	22-04-30
22.	00.00	22.03.30	Time	22.04.30
Delete				

Protocols Saved measurement Displayed as "Graph"

	🕸 🗋 🛱 🛪 🖉 🕅 🕸				
40 WRU		<			
Progra	am 1 .2016 22:04:46	Natural gas			
:≡ Table	📈 Graph	(i) Extras			
Site					
Markus Wende 13514 Breakwater Path Loop					
Photos					
Add photo					
Devi	Device Info				
Devicetype: AMPRO2000 Serialnumber: 309468					
Comment					
Delete					

Protocols

Saved measurement / EXTRAS



Use this button to send the measurements per email



 S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S
S 🕸 🕅 🏟 🕄 📶 97% 🗎 8:42 AM MRU 4U PROTOCOLS 3 Site-Nr. Name Street+Nr. ZIP Location Comment Save Delete From address book

Protocols Sites Service Settings (i) Device info Main page

ଙ୍ 😒 🖬 🛛 🔊 🕅 🕅 🕅 🕄 🕯 4:34 PM

MRU4u

E Connect & Measure



Sites



New site, enter information

Sites Enter information then "Save"

Select a site to view it

Press "New site" to add one

ଝ୍େ⊑େ ଓ ଶି 🛛 🕸 🕄	ি∡∎ 96% 🖿 8:48 AM					
《 🗤 Settings						
Data Export						
Enter a standard mail address to send measured data						
Mail: mwende@mru-instruments.						
Measure						
Choose an interval, in which the app should get the readings from the device						
Log Interval:	2 Seconds					
Setup your measuring programs						
Manage measuring programs						
Units						
Select desired unit						
Energy Corrected	mg/MJ					
Draft	inH20					
Version 1.0.1.0						

Settings Insert email address Change log intervals Modify measuring units



Service Find a MRU service location



Change log intervals





Settings

Modify measuring units



Device info Shows details about the connected analyzer

