



DETECTO MV1C MedVue Medical Weight Analyzer Wi-Fi and Bluetooth User Manual

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DETECTO MV1C MedVue Medical Weight Analyzer Wi-Fi and Bluetooth



INTRODUCTION

This manual is furnished for the MV1C MedVue® Medical Weight Analyzer with the Redbird Wi-Fi and Bluetooth Low Energy (BLE) wireless transmitter inside the weight indicator enclosure. It has been supplied in addition to the MedVue Medical Weight Analyzer Owner's Manual, 8555-M512-O1, and should be consulted for guidance through setup and operation of the Redbird Wi-Fi and Bluetooth (BLE) wireless transmitter.

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Contains FCC ID: 2ADHKWINC3400

1. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:
 1. This device may not cause harmful interference.
 2. This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. This equipment must be installed and operated with a minimum distance of 20 cm between the radiator and user body.

WI-FI NETWORKING

The wireless transmitter inside the MV1C MedVue® Medical Weight Analyzer enclosure can easily be enabled and configured for use on a Wi-Fi network.

Wi-Fi Features

- Soft Access Point (AP) for setting credentials for Wi-Fi module
- Setup option to select static or dynamic IP address
- Built-in web server to display weight, height, and BMI TCP/IP connection for continuous output of weight, height, and BMI

WI-FI SETUP

Enable and Configure Wi-Fi Networking

The MV1C allows you to view and change network settings without having to perform setup using the calibration switch. The operational settings are entered using the keypad

- . The (CLEAR) key is used to begin setup review and clear incorrect entries.
- The (ENTER) key is used to go into the menu item or save the setting.
- The N/G (NET/GROSS) key is used to return to the previous menu item or setting.
- The ID/H (ID/HEIGHT) key is used to advance to the next menu item or setting.
- The 1 (YES) key is used to select ON or YES to various settings.
- The 0 (NO) key is used to select OFF or NO to various settings.

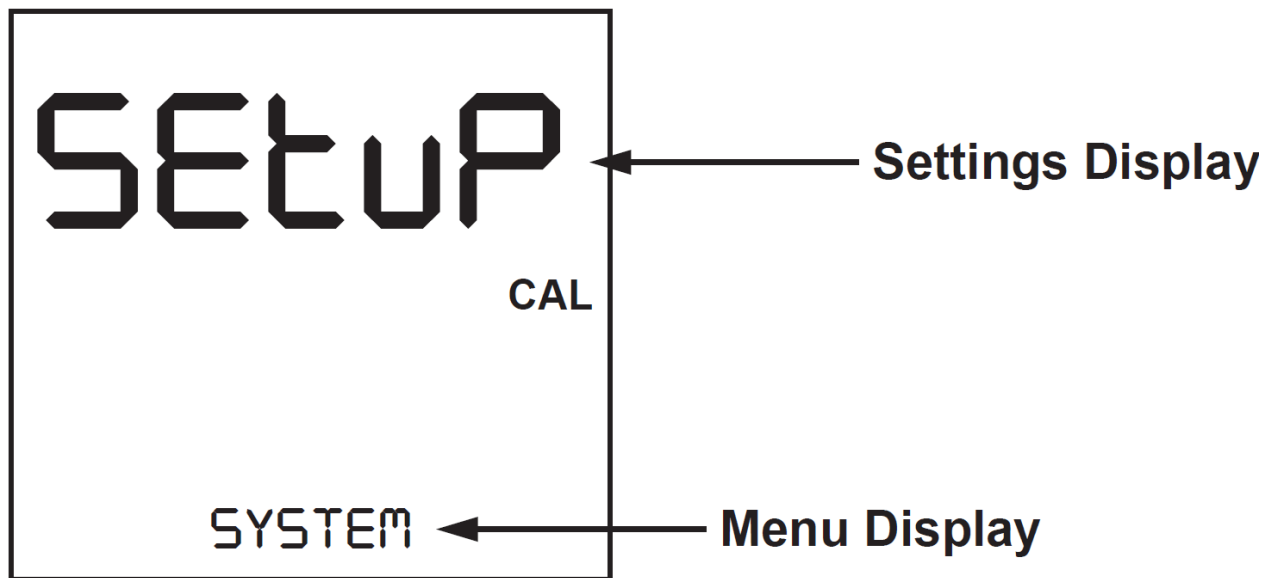
NOTE:

Factory Network Settings are:

bLE ON/OFF = OFF, WIFI ON/OFF = OFF, and DHCP ON/OFF = ON.

To enable and configure Wi-Fi networking:

1. With the MV1C turned ON and in the Gross weight mode, press and hold the CLEAR key for approximately 3 seconds.
2. The display will change to show SETUP REVIEW.
3. Release the CLEAR key.
4. The display changes to show:



5. Press the ID/HEIGHT key until bLE/WIFI is shown in the Menu area of the display.
6. With bLE/WIFI displayed, press the ENTER key. The display will change to show REDbIRD REV and the Redbird Software version in the Settings area of the display.
7. Press the ENTER key. The display will change to show bLE ON/OFF and the current setting.
8. With bLE ON/OFF displayed, press the ENTER key.
9. The display will change to show WIFI ON/OFF and the current setting.
10. Press the 1 (YES) key to select on to enable Wi-Fi and then press the ENTER key.
11. The display will change to dHCP ON/OFF and show the current setting. Press the ENTER key if the current setting is acceptable. Otherwise, press the 0 (NO) or 1 (YES) key to select a new setting, and then press the ENTER key to save it.

Allowable settings are: off or on.

NOTE:

Select off to use a static IP address or select on to use a dynamic IP address assigned by a DHCP server.

Consult with your network administrator for the proper selection.

12. The next prompt will be IP1, the first octet of the static IP address.
 - a. If dHCP was set to on, nothing needs to be entered here. Press the ENTER key until the prompt CLR WIFI CREdS is displayed.
 - b. If dHCP was set to off, using the numeric keys, enter the value for IP 1, the first octet of the static IP address, and then press the ENTER key. For example, if the static IP address is "192.168.0.2", enter 192 on the numeric keypad, and then press the ENTER key.
 - c. The next three prompts will be IP 2, IP 3, and IP 4 for the remaining three octets of the IP address. Using the numeric keys, enter the value for each octet of the IP address, and then press the ENTER key. Repeat this for each octet.
13. The next prompt will be SUBNET1, the first octet of the network subnet mask.
 - a. If dHCP was set to on, nothing needs to be entered here. Press the ENTER key until the prompt CLR WIFI CREdS is displayed.
 - b. If dHCP was set to off, using the numeric keys, enter the value for SUBNET 1, the first octet of the network subnet mask, and then press the ENTER key.
 - c. The next three prompts will be SUBNET 2, SUBNET 3, and SUBNET 4 for the remaining three octets of the subnet mask. Using the numeric keys, enter the value for each octet of the network subnet mask, and

then press the ENTER key. Repeat this for each octet.

14. The next prompt will be GATEWAY1, for the first octet of the network gateway's IP address.
 - a. If DHCP was set to on, nothing needs to be entered here. Press the ENTER key until the prompt CLR WIFI CRedS is displayed.
 - b. If DHCP was set to oFF, using the numeric keys, enter the value for GATEWAY 1, the first octet of the network gateway's IP address, and then press the ENTER key.
 - c. The next three prompts will be GATEWAY 2, GATEWAY 3, and GATEWAY 4 for the remaining three octets of the gateway's IP address. Using the numeric keys, enter the value for each octet of the gateway's IP address, and then press the ENTER key. Repeat this for each octet.
15. The display will prompt CLR WIFI CRedS and show the current setting. This is the prompt to clear the Wi-Fi credentials (SSID and password).

Press the ENTER key if the current setting is acceptable. Otherwise, press the 0 (NO) or 1 (YES) key to select a new setting, and then press the ENTER key to save it. **Allowable settings are:** no or YES.

 - a. To retain the credentials, press the 0 (NO) key and then press the ENTER key. The credentials will be retained.
 - b. To clear the credentials, press the 1 (YES) key and then press the ENTER key. The credentials will be cleared.
16. The display will change to show PRINTER TYPE and the current setting. This setting is for the Redbird print type.

Press the ENTER key if the current setting is acceptable. Otherwise, press the 0 (NO) or 1 (YES) key to select a new setting, and then press the ENTER key to save it. Allowable settings are: 0 (Print default ticket) or 1 (Print journal line)

NOTE:

End of Print Linefeeds is not available for Redbird print type.
17. The display will change to show YEAR [YYYY].
18. Press the ID/HEIGHT key until the display returns to the normal weight display.

Configure Wi-Fi Network Module

Without Wi-Fi credentials, the Wi-Fi module will enter listening mode, in which it functions as a Wi-Fi access point. The SSID of the AP is of the form "REDBIRD_WIFI_XX:XX", where XX:XX is the last 4-digits of the MAC address. Use a Wi-Fi device, such as a Smartphone, tablet, or laptop to connect to the MV1C. If the connection fails, try moving the MV1C to another location or turn the MV1C off and back on. When the connection has been made, open a web browser and go to the location redbird.com. The "Configure Wi-Fi" page should appear

2:54



  redbird.com/?refresh=S  



Configure Wi-Fi

Network Name

Password

Device Name

Connect

Available Networks

Scan

SSID	Mac Address	Signal Strength
BLUEROOM	54:75:D0:B3:0D:AF	-51
Dynex617	10:DA:43:82:56:2C	-52

- Click on the Scan button to see a list of available Wi-Fi networks.

2:55

redbird.com/?refresh=S

**Cardinal
DETECTO**

Configure Wi-Fi

Network Name
Dynex617

Password

Device Name
MV Scale

Connect

Available Networks **Scan**

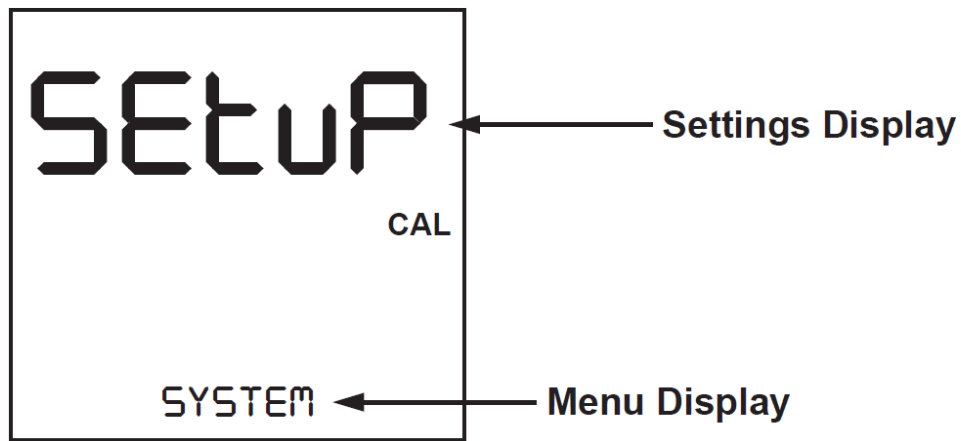
SSID	Mac Address	Signal Strength
BLUEROOM	54:75:D0:B3:0D:AF	-51
Dynex617	10:DA:43:82:56:2C	-52

Enter the Network Name (SSID), Password, and Device Name (optional) for the network you wish to connect to. Note that the Device Name can be anything. Click on the Connect button and the module should try to connect to that network. This may take several seconds. The module will store these network credentials and connect to this network each time the MV1C is turned on.

Changing the Network Credentials

To change the network credentials, perform the following steps:

1. With the MV1C turned ON and in the Gross weight mode, press and hold the CLEAR key for approximately 3 seconds.
2. The display will change to show SETUP REVIEW.
3. Release the CLEAR key.
4. The display changes to show:

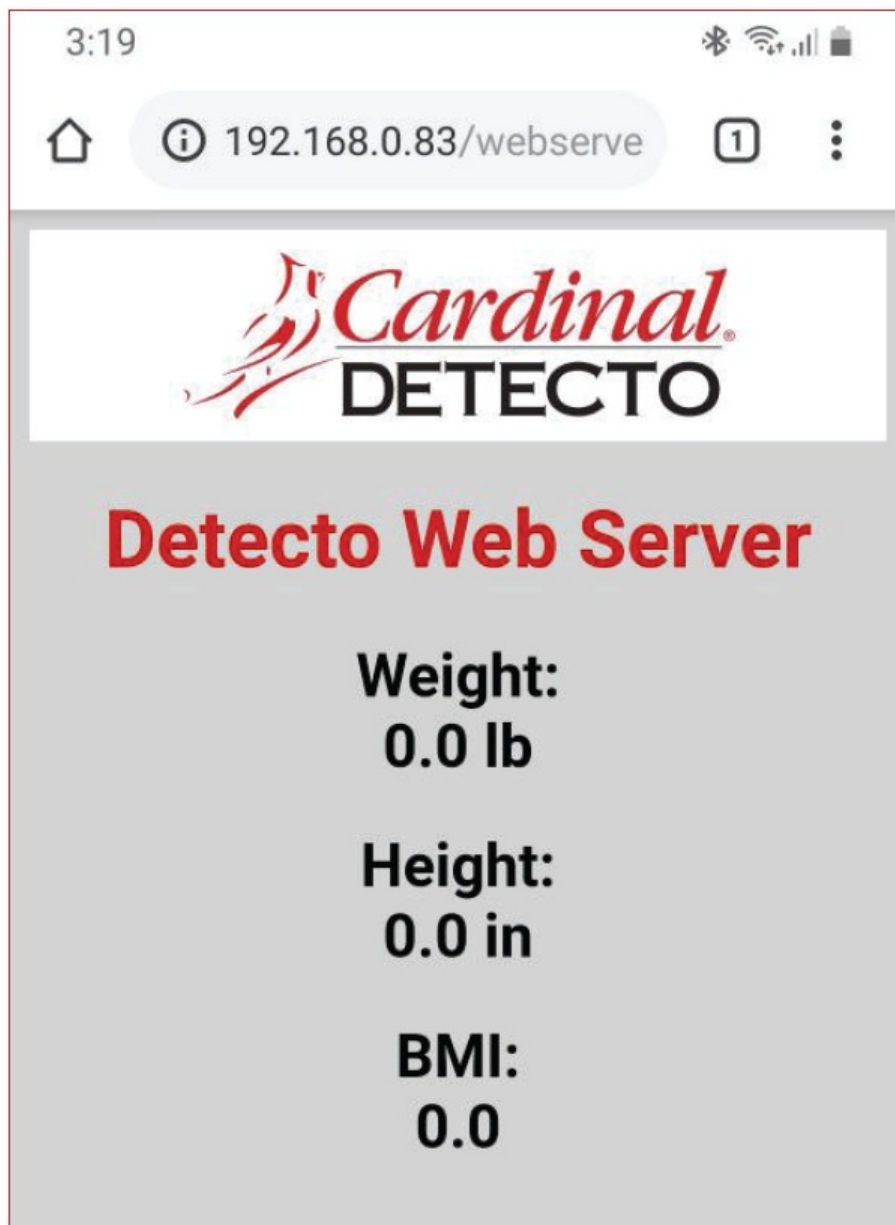


5. Press the ID/HEIGHT key until bLE/WIFI is shown in the Menu area of the display.
6. Press the ENTER key until the prompt CLR WIFI CReDS is displayed.
7. With the display showing CLR WIFI CReDS, press the 1 (YES) key and then press the ENTER key. This will clear the network credentials.
8. Press the ID/HEIGHT key until the display returns to the normal weight display.
9. Repeat the steps in the Configure Wi-Fi Network Module on the previous page to set the new network credentials

WI-FI OPERATION

Web Server

While the MV1C is connected to a network you can access the hosted web page. To view the web page, proceed to the IP address of the Redbird module with “/webserver.html” added to it. For example, if the IP address is “192.168.0.5”, enter 192.168.0.5/webserver.html and a page like the following should appear.



TCP/IP Connection

Continuous output is available by TCP/IP connection to the MV1C's IP address at port 10001.

- The MV1C will transmit a single set of weight data each time the SMA weight request `<LF>W<CR>` is received.
- Each time the SMA weight request `<LF>R<CR>` is received, the MV1C will transmit weight data continually until another SMA command is received.

SMA format for both command `<LF>W<CR>` and `<LF>R<CR>`.

- `<LF><s><r><n><m><f><xxxxxx.xxx><uuu><CR>`

Where:

LF =	Line feed (hex 0A) = Start of response message
s =	Scale Status definition
	Z = Center of Zero <xxxxxx.xxx>= 0.000
	O = Over Capacity <xxxxxx.xxx>= +weight
	U = Under Capacity <xxxxxx.xxx>= -weight
	E = Zero Error (clears when condition clears)
	<space> = None of the above conditions NOTE: For “E” error condition <xxxxxx.xxx>= ————— (center dashes) and “Z”, “O”, “U” is overridden
r =	Range (“1”, “2”, “3”, etc.) always “1” for single range
n =	Mode of Operation (Gross/Net status)
	G = Gross normal weight
	T = Tare weight (in response to “M” command)
	N = Net normal weight
	g = gross weight in high-resolution
	n = net weight in high-resolution
m =	Motion status
	M = Scale in Motion
	<space> = Scale not in Motion
f =	Future = Reserved for future or custom use
xxxxxx.xxx =	Weight with decimal point if necessary
uuu =	Units = e. g. lb, kg
CR =	Carriage Return (hex 0D) = End of response message

SMA Commands

Once a TCP/IP connection has been made to the MV1C, you can issue SMA commands to it. The MV1C will respond to the SMA commands in the format shown in the Response column of the WI-FI AND BLUETOOTH SMA COMMANDS table on pages 14 and 15 of this manual.

BLUETOOTH LOW ENERGY (BLE)

The wireless transmitter inside the MV1C MedVue® Medical Weight Analyzer enclosure can easily be enabled

and configured to connect to a Bluetooth-capable device using Bluetooth Low Energy (BLE). When possible, BLE standard specifications are used (those that are adopted by the Bluetooth SIG). Custom services were created to request indicator and scale information whose communication protocol was developed by the Scale Manufacturers Association (SMA).
Features Available via BLE

- Device Information Service
 - Manufacturer Name
 - Model Number
 - Software Revision
- Battery Service
 - Battery Level Percentage
- Weight Scale Service
 - Weight Measurement
 - Weight Scale Feature
- Custom Services
 - Detecto SMA Service

Enable Bluetooth (BLE) Networking

The MV1C allows you to view and change the Bluetooth Settings without having to perform setup using the calibration switch. The operational settings are entered using the keypad.

- The (CLEAR) key is used to begin setup review and clear incorrect entries.
- The (ENTER) key is used to go into the menu item or save the setting.
- The N/G (NET/GROSS) key is used to return to the previous menu item or setting.
- The ID/H (ID/HEIGHT) key is used to advance to the next menu item or setting.
- The 1 (YES) key is used to select ON or YES to various settings.
- The 0 (NO) key is used to select OFF or NO to various settings.

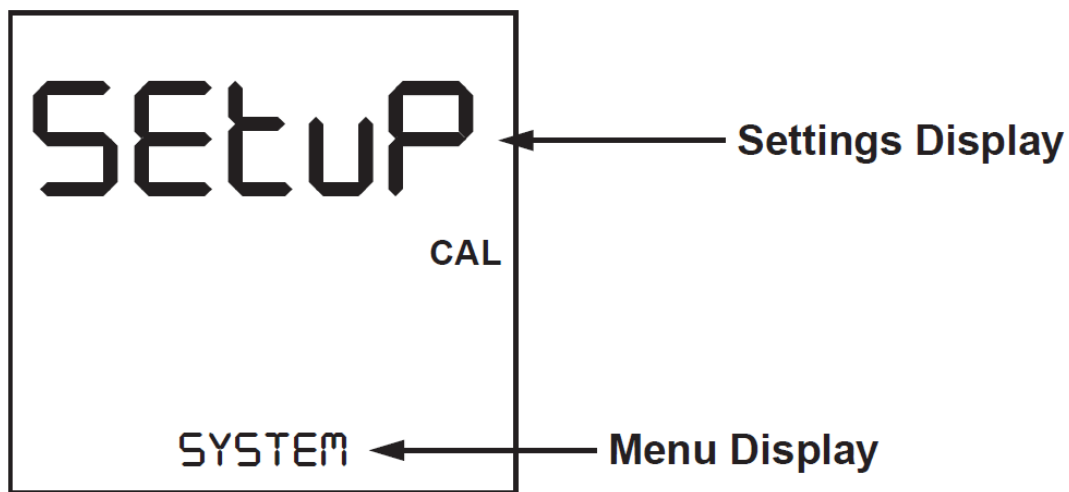
NOTE:

Factory Network Settings are:

bLE ON/OFF = OFF, WIFI ON/OFF = OFF, and DHCP ON/OFF = ON.

To enable Bluetooth (BLE) networking:

1. With the MV1C turned ON and in the Gross weight mode, press and hold the CLEAR key for approximately 3 seconds.
2. The display will change to show SETUP REVIEW.
3. Release the CLEAR key.
4. The display changes to show:



5. Press the ID/HEIGHT key until bLE/WIFI is shown in the Menu area of the display.
6. With bLE/WIFI displayed, press the ENTER key. The display will change to show REDbIRD REV and the Redbird Software version in the Settings area of the display.
7. Press the ENTER key. The display will change to show bLE ON/OFF and the current setting.
8. Press the 1 (YES) key to select on to enable Bluetooth, and then press the ENTER key.
9. Press the ID/HEIGHT key until the display returns to the normal weight display. The MV1C is now ready to pair with a Bluetooth-capable device.

IMPORTANT

If an attempt is made to turn off the Bluetooth (BLE) when a device is connected to the MV1C, the display will show an error message ERR-bLE off. Before the Bluetooth (BLE) can be turned off, the device must be disconnected from the MV1C or the MV1C must be turned Off and back On.

Bluetooth Pairing

To pair a Bluetooth-capable device with the MV1C, select the name of the MV1C from the list of available connections: MV Scale XX:XX:XX:XX:XX:XX. Note that the X's represents the MAC address of the BLE wireless transmitter in the MV1C.

NOTE:

If there are multiple MV1C's in close proximity, press and hold the 0 (NO) key for about 5 seconds until the display changes to show REDbIRD REV and the Redbird Software version in the Settings area of the display. Release the 0 (NO) key. Next, press the ENTER key until the display is showing BLE in the Settings area of the display, with the Bluetooth (BLE) advertisement data MV Scale XX:XX:XX:XX:XX:XX scrolling across the Menu area of the display. Note that the X's represents the MAC address and that the colons between the MAC address will not be shown. When the display stops scrolling, press the ENTER key. The MV1C MedVue Medical Weight Analyzer will return to the normal weight display. When a stable reading is achieved, and the MV1C is paired with a Bluetooth-capable device, the reading will transmit when the connected device sends a request to receive data.

INTERFACING TO BLE

Note:

16-bit (4-digit) UUID's are adopted standards. 128-bit (32 digit) UUID's are custom services or characteristics.

Standard Services per Bluetooth SIG

Reference adopted specifications at <https://www.bluetooth.com/specifications/gatt>

Device Information Service (0x180A)

Characteristics	Number	Value(s)	Attributes
Manufacturer Name String	0x2A29	“Detecto”	READ
Model Number String	0x2A24	“MedVue”	READ
Software Revision String	0x2A28	“1.0.XX” software of MedVue	READ

Battery Service (0x180F)

Characteristics	Number	Value(s)	Attributes
Battery Level	0x180F	0x00 – 0x64 (uint16), represents 0 – 100 percent	READ

Weight Scale Service (0x181D)

Characteristics	Number	Value(s)	Attributes
Weight Measurement	0x2A9D	<8bit Flag><uint16 weight><uint16 bmi> <uint16 ht> > Supported Flags: Flag bit0: 0 = SI, 1 = Imperial bit3: 0 = BMI and Height not present 1 = BMI and Height present bit4: 0 = Not below zero* 1 = Below zero* SI: Wt is KG with resolution 0.0005 Ht is meters with resolution 0.001 Imperial: Wt is lbs with resolution 0.01 Ht is inches with resolution 0.1	READ INDICATE
Weight Scale Feature	0x2A9E	NOT YET IMPLEMENTED	

- If the weight is below zero (0), the weight you will see is zero (0).
- If the weight is below zero (0), bit 4 of Weight Measurement will be set to 1, otherwise bit 4 is set to zero (0).

NOTE:

Maximum weight value displayed is 655.35 in both pounds (lb) and kilograms (kg).

BLUETOOTH INTERFACE STANDARD PROTOCOLS

Bluetooth Characteristic – Weight_Measurement: 0x2A9D

Widely accepted BLE GATT profiles are used to transmit data to other devices/software that have implemented these profiles. Data is passed via BLE using GATT characteristic “Weight Measurement” (0x2A9D) as defined by Bluetooth SIG. Refer to the data table below about Weight Measurement Characteristics.

Weight_Measurement: 0x2A9D

NAMES	FIELD REQUIREMENTS	FORMAT	MIN. VALUE	MAX. VALUE	ADDITIONAL INFORMATION					
Flags	Mandatory	8 bit	N/A	N/A	BIT FIELD					
					Bit	Size	Name	Definition		Requires
								Key	Value	
					0	1	Measurement Units	0	SI (Weight and Mass in Units of Kilogram (kg) and Height in Units of Meter)	C1
								1	Imperial (Weight and Mass in Units of Pound (lb) and Height in Units of inch (in))	C2
					1	1	Time Stamp Present	0	False	
								1	True	C3
					2	1	User ID Present	0	False	
								1	True	C4
					3	1	BMI and Height Present	0	False	
1	True	C5								
4	1	Below Zero	0	Not Below Zero						
			1	Below Zero						
Weight - SI	C1	uint16	N/A	N/A	Information: Unit is in kilograms with a resolution of 0.005 and is determined when bit 0 of the Flags field is set to 0.					
					Unit: org.bluetooth.unit.mass.kilogram					
					Exponent: Decimal, -3					
					Multiplier: 5					
Weight - Imperial	C2	uint16	N/A	N/A	Information: Unit is in pounds with a resolution of 0.01 and is determined when bit 0 of the Flags field is set to 1.					
					Unit: org.bluetooth.unit.mass.pound					
					Exponent: Decimal, 02.					
Time Stamp	C3		N/A	N/A	Information: Smallest unit in seconds					
					Unit: org.bluetooth.characteristic.date.time					
User ID	C4	uint8	N/A	N/A	The special value of 0xFF (255 Decimal) for User ID represents "unknown user".					
					Information: Unit is unitless with a resolution of 1					
						Key	Value			
						255	Unknown user			
					Unit: org.bluetooth.unit.unitless					
BMI	C5	uint16	N/A	N/A	Information: Unit is unitless with a resolution of 0.1					
					Unit: org.bluetooth.unit.unitless					
					Exponent: Decimal, -1					
Height - SI	C1 C5	uint16	N/A	N/A	Information: Unit is in meters with a resolution of 0.001 and is determined when bit 0 of the Flags field is set to 0.					
					Unit: org.bluetooth.unit.length.meter					
					Exponent: Decimal, -3					
Height - Imperial	C2 C5	uint16	N/A	N/A	Information: Unit is in inches with a resolution of 0.1 and is determined when bit 0 of the Flags field is set to 1.					
					Unit: org.bluetooth.unit.length.inch					
					Exponent: Decimal, 0-1					

Custom Services

Detecto SMA Service (0x907a0000-8699-47dd-ab30-d7aad5f83e54)

All custom characteristics have the same base number of the Service UUID 0x907aXXXX-8699-47dd-ab30-d7aad5f83e54 where the XXXX part distinguishes the service.

Characteristics	Sub Number	Value(s)	Attributes
Rx Cmd	0001	SMA string received by MedVue (up to 20 chars)	WRITE
Tx Cmd	0002	SMA string sent by MedVue (up to 20 chars)	NOTIFY

SMA Commands

The SMA commands shown in the WI-FI AND BLUETOOTH SMA COMMANDS table on pages 14 and 15 of this manual can be sent using the Detecto SMA Service's Rx Cmd characteristic (0x907a0001-8699-47dd-ab30-d7aad5f83e54). Responses will put out a notification on the Tx Cmd characteristic (0x907a0002-8699-47dd-ab30-d7aad5f83e54).

WI-FI AND BLUETOOTH SMA COMMANDS

The format used to send SMA commands to the MV1C is:

- <LF>command<CR>

Where “command” is the ASCII letter(s), or the Hex Rep. listed in the table below. For example, <LF>Z<CR> or 0A5A0D would send the command to zero the scale. Note that the response of each command is listed under the Response column of the table.

- Any invalid command sent will return a question mark for a response. For example, sending a <LF>XZ<CR> will return 0A 3F 0D (<LF>?<CR>).

Command	Hex Rep.	Response
Z – zero scale	0A5A0D	None. You should see scale zero itself.
D – scale diagnostics	0A440D	0A 20 20 20 20 0D = means there are no errors, EEPROM error will show an E in the second space and C will show in the third space if there is a calibration error. 20 = SPACE
W – request weight	0A570D	0A 5A 31 47 20 20 30 30 30 30 30 30 2E 30 30 6C 62 0D = Z1G 000000.00lb
H – request high resolution weight	0A480D	0A 5A 31 67 20 20 30 30 30 30 30 30 2E 30 31 6C 62 0D = Z1g 000000.01lb
A – about scale first line	0A410D	0A 53 4D 41 3A 32 2F 31 2E 31 0D = SMA:2/1.1
B – about scale scroll	0A420D	Each time sent you will get the next line of information until there is no longer any information. 1. 0A 4D 46 47 3A 44 65 74 65 63 74 6F 0D = MFG:Detecto 2. 0A 4D 4F 44 3A 4D 45 44 56 55 45 0D = MOD:MEDVUE 3. 0A 52 45 56 3A 58 2E 58 2E 58 58 0D = REV:X.X.XX 5. 0A 45 4E 44 3A 0D = END: 6. If B is sent again you will get the unknown command response until the A command is sent again. 0A 3F 0D = ?
I – scale information	0A490D	0A 53 4D 41 3A 32 2F 31 2E 31 0D = SMA:2/1.1

Command	Hex Rep.	Response
N – scale	0A4E0D	Each time sent you will get the next line of scale
information		information until there is no longer any information.
scroll		1. 0A 54 59 50 3A 53 0D
		= TYP:S
		2. 0A 43 41 50 3A 20 6C 62 3A 36 30 30 2E 30 3A 32 3A
		31 0D
		= CAP: lb:600.0:2:1, this depends on the settings of the
		MedVue.
		600.0 – Capacity, 2 – Interval, & 1 – Decimal
		3. 0A 43 4D 44 3A 48 52 49 4E 58 0D
		= CMD:HRINX
		4. 0A 45 4E 44 3A 0D
		= END:
		5. If N is sent again you will get the unknown command
		response until the I command is sent again. 0A 3F 0D
		= ?
R – Repeat Displayed Weight Continuously	0A520D	0A 5A 31 47 20 20 30 30 30 30 30 30 2E 30 30 6C 62 0D = Z1G 000000.00lb, you should get this continuously until another S MA command is received.
XB – battery level	0A58420D	0A 38 36 2E 32 35 0D
percentage		= 86.25

DISPLAY WI-FI AND BLUETOOTH SETTINGS

The MV1C MedVue® Medical Weight Analyzer allow you to view the Wi-Fi and Bluetooth Settings without having to perform a calibration switch setup. To display the Wi-Fi and Bluetooth Settings, follow the steps below:

1. With no weight on the scale, press and hold the 0 (NO) key for about 5 seconds until the display changes to show REDbIRD REV and the Redbird Software version in the Settings area of the display. Release the 0 (NO) key.
2. Press the ENTER key to proceed.
3. If Wi-Fi is enabled WIFI ON/OFF = on, the following settings will be shown:
 - a. The Wi-Fi connection status (WIFI Connected, YES or no) will be displayed. Press the ENTER key to advance to the next setting.
 - b. The next four settings will be IP 1, IP 2, IP 3, and IP 4, the four octets¹ of the IP address. Press the ENTER key to view the setting of each octet of the IP address. After viewing the IP 4 setting, press the ENTER key to advance to the next setting.

- c. Next, 55Id will be shown in the Settings area of the display, and the network name will be shown in the Menu area of the display. Press the ENTER key to proceed.
4. . If Bluetooth has been turned ON, bLE ON/OFF = on, the following will be shown:
- Next, bLE will be shown in the Settings area of the display, with the Bluetooth (BLE) advertisement data MV Scale XX:XX:XX:XX:XX:XX scrolling across the Menu area of the display. Note that the X's represents the MAC address and that the colons between the MAC address will not be shown.
 - b. When the display stops scrolling, press the ENTER key.
5. The MV1C MedVue Medical Weight Analyzer will return to the normal weight display.

1 If the Wi-Fi is not connected (WIFI Connected, no), and a scan of the Wi-Fi networks shows "REDBIRD_WIFI_XX:XX" AP, then the Wi-Fi module is in listening mode. Refer to the Configure Wi-Fi Network Module section for the procedure to set the Wi-Fi credentials.

STATEMENT OF LIMITED WARRANTY

Detecto Scale warrants its equipment to be free from defects in material and workmanship as follows: Detecto warrants to the original purchaser only that it will repair or replace any part of equipment which is defective in material or workmanship for a period of two (2) years from date of shipment. Detecto shall be the sole judge of what constitutes a defect. During the first ninety (90) days Detecto may choose to replace the product at no charge to the buyer upon inspection of the returned item. After the first ninety (90) days, upon inspection of the returned item, Detecto will repair or replace it with a remanufactured product. The customer is responsible for paying for the freight both ways. This warranty does not apply to peripheral equipment not manufactured by Detecto; this equipment will be covered by certain manufacturer's warranty only.

This warranty does not include replacement of expendable or consumable parts. This does not apply to any item which has deteriorated or damaged due to wear, accident, misuse, abuse, improper line voltage, overloading, theft, lightning, fire, water or acts of God, or due to extended storage or exposure while in purchaser's possession. This warranty does not apply to maintenance service. Purchased parts will have a ninety (90) day repair or replacement warranty only. Detecto may require the suspect product to be returned to the factory; item(s) must be properly packed and shipping charges prepaid. A return authorization number must be obtained for all returns and marked on the outside of all returned packages. Detecto accepts no responsibility for loss or damage in transit.

Conditions Which Void Limited Warranty

This warranty shall not apply to equipment which:

- A.) Has been tampered with, defaced, mishandled or has had repairs and modifications not authorized by Detecto.
- B.) Has had serial number altered, defaced, or removed.
- C.) Has not been grounded according to Detecto's recommended procedure.

Freight Carrier Damage

Claims for equipment damaged in transit must be referred to the freight carrier in accordance with freight carrier regulations. This warranty sets forth the extent of our liability for breach of any warranty or deficiency in connection with the sale or use of the product. Detecto will not be liable for consequential damages of any nature, including but not limited to, loss of profit, delays or expenses, whether based on tort or contract. Detecto reserves the right to incorporate improvements in material and design without notice and is not obligated to incorporate improvements in equipment previously manufactured. The foregoing is in lieu of all other warranties, express or implied including any warranty that extends beyond the description of the product including any warranty of merchantability or fitness for a particular purpose. This warranty covers only those Detecto products installed in the forty-eight (48) contiguous continental United States.

Documents / Resources



[DETECTO MV1C MedVue Medical Weight Analyzer Wi-Fi and Bluetooth](#) [pdf] User Manual
MV1C, MedVue Medical Weight Analyzer Wi-Fi and Bluetooth, Weight Analyzer Wi-Fi and Bluetooth, MedVue Medical Weight Analyzer, Medical Weight Analyzer, MV1C, Weight Analyzer

References

- redbird.com
- [Bluetooth® Technology Website](#)