

Process Instrumentation & Weighing

# **ModTool Instructions**

### **Downloading and running**

ModTool comes as a Microsoft Windows ® program that can be run by double clicking the .exe file. There is no installation needed.

When ModTool starts it creates a couple of folders under the location it was started from. The "LogFiles" folder contains log files that record the activity of ModTool. The "ModWeighLogFiles" folder is created when the "Save System Logs" button is used and holds the logs from the ModWeigh units.

To remove ModTool simply delete the exe file and these two folders if they exist.

To download the ModTool exe file open the website <u>www.emc.co.nz</u> and click the **Downloads** button near the top right. Click **ModWeigh** near the center of the page. This opens the ModWeigh downloads area.

Double click **Software Tools & Updates** and then **ModTool - for MT3 configuration**. From here you can double click the ModTool6.XXrXX.exe file to download it.

#### Important: Please note the following caveats when downloading and running ModTool.

#### Downloading

Depending on which web browser you are using you may need to specify that the file is safe to download.

In Google Chrome for example you will need to click **Download** after which chrome may issue a warning saying "ModTool6.XXrXX.exe is not commonly downloaded and may be dangerous".

You will need to click the small button next to **Discard** and click **Keep**, as in the following screen shot.



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The ModTool6.XXrXX.exe will then be saved to your regular Downloads folder.

#### Running

When you double click the ModTool exe file for the first time you will get the following warning from Windows.



You will need to click **More Info** to run ModTool. This warning only appears the first time after you download the exe file.

A second screen now appears where you can click **Run anyway**.

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### Using ModTool

😂 ModTool 6.08r05c		– – ×
COM2 192	00 baud 🔹 Connec	ct Search Show Log
	calibration	✓ locked
	weight capacity	maximum capacity of weighing system (20mA point)
	Al1 response time	increase to smooth out weight vibrations in the weighing system
	zero	remove all weight from weighing system and enter 0 (4mA point)
	span	apply known weight to weighing system and enter this value
Update All Save	System Logs Refresh	Save Settings Load Settings
Disconnected		

The first step is to connect to the ModWeigh unit. Depending on which type of ModWeigh unit you are using there are a couple of options.

- A standard USB micro B cable can be used to connect your PC/laptop to the USB port of the ModWeigh unit. If you are using Windows 10 then it automatically installs the correct drivers. If you are using Windows 7 or Windows 8 then you will need to download and install the correct USB drivers from the ModWeigh download area of our website at <u>www.emc.co.nz</u>.
- A MAC cable and MAD adapter can be used with a standard USB to RS232 Serial adapter to connect the PC/laptop to the COM1 port of the ModWeigh unit.



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Now you can either set the COM port number using the up/down control next to it and click the **Connect** button, or you can click the **Search** button to automatically search the com ports on your computer until the ModWeigh unit is found.

Once the ModWeigh unit is connected the Connect button changes to Disconnect and the list of ModWeigh units is shown in the left hand pane.

🗱 ModTool 6.08r05c			- 🗆 X
COM2 19200 baud	Disconnect	Search	Show Log
01 MT1 Transmitter 03 MD2/MP2 Display 04 MD2/MP2 Display 05 MD1/MP1 Display 07 MT1 Transmitter 09 MT3 Transmitter 41 MR1 Remote I/O Unit 49 MR1 Remote I/O Unit 57 MD1/MP1 Display	calibration weight capacity Al1 response time zero span	<ul> <li>✓ locked</li> <li>maximum capacity of weighing</li> <li>increase to smooth out weight</li> <li>remove all weight from weighin</li> <li>apply known weight to weighin</li> </ul>	g system (20mA point) ight vibrations in the weighing system g system and enter 0 (4mA point) g system and enter this value
Update All Save System Logs	Refresh		Save Settings Load Settings
Connected			

To select a unit click on it and information about that unit will be displayed on the right hand side.

There are two operations that can be carried out on all ModWeigh units.

The **Update All** button - clicking this button will update the software in all units. This will take a long time and the units will be restarted at the end of the process.

The **Save System Logs** button - clicking this button saves the system logs from all units into a folder called "ModWeighLogFiles". This will take a long time.

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Once a unit has been selected by clicking on it you can see the information about it.

😯 ModTool 6.08r05c			- 0 >	×		
COM2 19200 baud	Disconnect	Search	Show Log			
01 MT1 Transmitter 03 MD2/MP2 Display 04 MD2/MP2 Display 05 MD1/MP1 Display	MK61A+MT3+v96.08r06+	sn11117+c659r0-0 516ka	Weight Indicat	or		
07 MT1 Transmitter 09 MT3 Transmitter 41 MR1 Remote I/O Unit 49 MR1 Remote I/O Unit 57 MD1/MP1 Display	calibration					
	All response time	capacity into kg - maximum capacity of weighing system (20mA point) sponse time 0.50 = s - increase to smooth out weight vibrations in the weighing system				
	span	kg - apply known we	eight to weighing system and enter this value			
	limit	100 kg - weight limit to c	Irive OUT9 (limit 2)			
Update All Save System Logs Connected	Refresh		Save Settings Load Settings			

The product information includes the product type, software version, serial number and card number. To the right of this information is the product type description, in this case the ModWeigh unit is a Weight Indicator.

The weight (Al1) and output current (AO1) are displayed next and update once per second.

Initially the calibration is locked. The calibration fields are greyed out to show this.

To unlock the calibration click the **locked** checkbox. The calibration will then become unlocked and the fields can then be edited.

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The weight capacity, Al1 response time, zero, span and limit (only shown for 61 product types) can be edited.

😚 ModTool 6.08r05c				- 🗆 X
COM2 • 19200 ba	ud 🛉 Disconnect	Search		Show Log
01 MT1 Transmitter 03 MD2/MP2 Display 04 MD2/MP2 Display 05 MD1/MP1 Display 07 MT1 Transmitter 09 MT3 Transmitter	MK61A+MT3+v96.08r06+	-sn11117+c659r0-0 516kg	12.253mA	Weight Indicator
41 MR1 Remote I/O Unit 49 MR1 Remote I/O Unit 57 MD1/MP1 Display	calibration weight capacity Al1 response time zero span limit	unlocked 1000 kg - maximum cap 0.50 → s - increase to kg - remove all weig kg - apply known w 100 kg - weight limit to	acity of weighing system (20mA point) smooth out weight vibrations in the weig ght from weighing system and enter 0 (4 reight to weighing system and enter this drive OUT9 (limit 2)	hing system ·mA point) ·value
Update All Save Syste	m Logs Refresh		Save Settings	Load Settings
Connected				

**weight capacity** - sets the weight capacity. This is equivalent to menu quick key Q2121 in a ModWeigh display.

**Al1 response time** - use the up/down control to adjust this. This is equivalent to menu quick key Q22311 in a ModWeigh display.

**zero** - set this to 0 and press the Enter key to zero the weighing system. This is equivalent to menu quick key Q22321 in a ModWeigh display.

**span** - apply a known weight and press the Enter key to span the weighing system. This is equivalent to menu quick key Q22322 in a ModWeigh display.

**limit** - OUT9 is driven on when the weight is below the value entered in this field. This is equivalent to menu quick key Q23524 in a ModWeigh display. Please note that this field is only shown for a 61 Weight Indicator product type.

The **Refresh** button - clicking this button will reload all the calibration fields from the ModWeigh unit.

The **Save Settings...** button - clicking this button allows you to save the settings of the selected ModWeigh unit to a file on your computer. You can choose to either save the normal setup or just the altered setup (only those settings changed from the default). The "..." button allows you to select the folder where the settings file will be saved, by default the file is saved in the same folder that ModTool is started from.

🐯 Save Settings				×
Save type	normal setup		•	
File name	address_09_sn11117_pnMT3.cs	SV		
Save Set	ings Cancel			

The **Load Settings...** button - clicking this button allows you to load the settings back into the selected ModWeigh unit using a file on your computer. You can choose what to load into the unit from: settings, macros, memory storage or loadcell calibration. The "..." button allows you to select the file where the settings will be loaded from.

🔲 Load Settings				×
Save type	settings		•	
File name				
Load Set	tings	Cancel		