ThermoBarScan TM Electronics UK Ltd INSTRUCTION BOOKLET



Model: MM7100-2D

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Introduction

TME's range of unique barcode scanning thermometers use barcodes to identify a location or product for temperature measurement; with the **MM7100-2D**, you can now assign an alarm value with remedial action to these barcodes enabling the user to be instantly alerted to any temperature anomalies. When the barcode is scanned, the **MM7100-2D** will give a visual low or high alarm with a corrective action message which can set by the user.

Alarms can be set to reflect critical temperature points. For example, if a barcode represents a cooked chicken, then set the low alarm value to 73°C and the high to 80°C. When the user takes the temperature and scans the chicken, they will see an indication of whether the temperature is in the acceptable range and the suggested corrective action if it is not (e.g. adjust oven temperature).

The **MM7100-2D** can also be used for water temperature testing. For monitoring legionella temperatures, a global alarm can be set which gives the critical temperature range at which the legionella bacterium multiplies. When the user scans the product barcode, the display will give an indication of whether or not the temperature is safe.

PC Set up

Installing the Software - What you need

- TME Software CD
- Bluetooth dongle (we recommend the Belkin dongle with Widcom stack)

OR

• Bluetooth enabled PC or laptop

How to install your TME software

! If you need to install a Bluetooth dongle, please install this <u>before</u> installing the software CD.

Place the CD into the CD drive of your PC or laptop.

The CD should 'Autorun' and install. If not, please select '*setup*' and follow these instructions:

Click 'next' to install the software

🚰 Setup - TME	
	Welcome to the TME Setup Wizard
	This will install TME 6.0.0.0 on your computer.
	It is recommended that you dose all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

You will then be asked to install the software to the C drive directory under '*C*:*Program Files**TME*' - click '*next*' to accept this. The TME software will automatically create a shortcut icon on your desktop so the software can be easily accessed.

Start the MM7100 software by clicking on the desktop icon.

Bluetooth Set Up

(For USB version please skip to USB SETUP)

Go to the Select Bluetooth Tab.

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elect Bluetooth	Discovery	USB	Downlo	ad Data	Translat	e Barcodes	Setup	Print Barcodes	Alarms	Information
Available Blueto	oth Handlers	Frank								
	🔲 Widcomm		nhiba 🗖	BlueSolie	ų					
Microsoft API Status Loaded	🔲 Widcomm	Tos	c	BlueSolie	Discover	Name TME-7DT0				

Select Click to load and list System Bluetooth Devices.

You should now see at least one of the driver boxes ticked (under Bluetooth Handlers) and any Bluetooth devices will be listed. Highlight the one you wish to use.

! We recommend either Microsoft or Widcom as drivers.

Address	API	Connect	Discover	Name
baMicrosoft	(00:0A:3A:82:54:07)	True	Falso	TME-7DT05
	- N	- T		

Turn on your MM7100-2D instrument. You will find the home screen which will display your time, date, instrument name, temperature, temperature scale, thermocouple type and battery life.



Now press the *Bluetooth* Button, the word **Blue** will be displayed in the top left of the display (see image below). This means that the instrument is now in Bluetooth mode. The instrument must remain with the Bluetooth enabled (showing 'BLUE') in order to connect the instrument to the software.



Discovery

Select the **Discovery** tab and then **Click Here to** start **Discovery and Select Instrument**



The devices within Bluetooth range will be displayed and their Bluetooth addresses shown. To connect to the instrument, click on the device's Bluetooth address.

The instrument will automatically connect. There is **no need** to select the Connect button unless you wish to re-connect.

Instrument Type	Serial Number	Names	Bluetooth Address
MM7100	123555	TMEINSTO	(64:6E:6C:C0:EE:B4)

Once connected, the software will display the instrument's name and serial number and the word **connected** will be displayed in the top left of the display on the MM7100-2D instrument (see image below). To swap between multiple devices, simply click on another instrument.



USB Set Up

Click on the USB tab.

Turn instrument on and connect to computer with the cable provided.

Press the USB button - 'USB' will appear on display.

Click on the Discover Serial Ports Button.

Select the appropriate 'USB Serial Port' and the instrument will automatically connect. The Name and Serial Number will be displayed.

Image: Strategy of the strategy			In	ermoBarScan ·	- T.M.Electron	nics (UK) Ltd	01903 70	0651		
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Setting instrument parameters

Using the TME software, under **Setup** tab, you are able to set the instrument's parameters. These are:

- Set Time and Date the time and date is read from your PC. To set the time and date, select *Read Time/Date* and then *Set Time/Date to System*
- 2. Set Sensor Type sets the thermocouple type e.g. K/T
- 3. Set Temperature Scale sets the temperature scale e.g. $^{\circ}C$ / $^{\circ}F$
- 4. Set Instrument Name allows you to identify the instrument with its own specified name
- 5. Set Print Header allows you to assign a heading for the print reports when using the Bluetooth Printer

Other features include:

Autoswitch on? - allows you to check to see if the autoswitch on/off function has been enabled

	MULBERRY HOUSE MULBERRY LAAE CONNENSE WEST SUSSEX BN12 ARD TEL: 01903 700651 FAX: 01903 244307	Instrument Select Name Ther Serial No [6666	moscan	Terson KED
Select Bluetooth Discov	Instrument Parameters Here rery USB Download Data m Date 05-28-2014	Translate Barcodes	Setup Print Barcodes	Alarms Informatic
Read Instrument Inform Read Time/Date Read TiC Type Read Scale Read Inst Name Read Print Header	nation	Set Instrument Informa Set Time/Date Set Sensor Type [Set Temperature Scale] Set Inst Name [Set Print Header]	ation V	

Battery power? - allows you to monitor battery life

Once you have set your parameters, you can check that the settings have been stored by using the *Read* functions. The instrument is now ready for use.

To generate Barcodes

There are a number of websites offering free utilities to convert text into Barcodes. We recommend using the following website which will give you a step-by-step guide for generating your barcodes:

www.barcodesinc.com/generator/index.php

Your MM7100-2D instrument can read both 1D and 2D barcodes in the following formats:

All UPC/EAN/JAN Codes EAN28 Codes Code 39, Code 128 Interleave 25 PDF417 QR Code Data Matrix GS1-DataBarTM RSS, RSS Limited. RSS-14 RSS-14 Stacked, RSS-Expand

For generating 2D or QR Codes: https://www.barcodesinc.com/generator/qr/

Alternatively many office products now come with a Barcode font. Please note that your MM7100-2D instrument can read a 1D barcode with a **maximum of 32 characters including spaces.**

You can generate the barcodes yourself or use the **print barcode** tab in the software if you have the TME Barcode printer.

To take a reading using your MM7100-2D

The MM7100-2D instrument has the ability to record barcode and temperature information by scanning and logging, or by logging the temperature alone. Additionally, you can also use the instrument for asset management by scanning the barcode of each asset.

The new 1D and 2D scanner can read barcodes on virtually any medium - paper, plastic cards, mobile phones and LCD displays.

To scan a barcode:

Connect a thermocouple sensor to the top of the instrument and wait for the temperature reading to stabilize. Once the reading has stabilized, press the *Scan* button. This will activate the Barcode Scanner and freeze the temperature measurement. You will also see the word **scan** at the left hand corner of the screen.

Scan the barcode, when read the instrument will Bleep.

The instrument has now stored the **Barcode information**, **time**, **date** and **temperature** to the internal memory. Up to 1000 readings can be stored on the instrument.

Whilst in SCAN mode the store number will be shown at the top right of the instrument display. After scanning, the display will revert to showing the time and temperature.

To Log a reading (without Barcode information)

Connect a thermocouple sensor to the top of the instrument and wait for the temperature to stabilize. Once the reading has stabilized, press the *Log* button. The word *Log* will appear at the top left of the display to indicate that the device has recorded the reading, with the store number at the top right.

You will have now logged the **time**, **date** and **temperature** to the internal memory.

Retrieving information – *Downloading to TME* Software

Use the software to discover and connect as before.

When connected select the **Download Data** tab and then select the **Get Data** button.

The data stored on the instrument will then appear as a numbered list.

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Message				01903 2443	07						Version 8.010
Select Blue	tooth	Disco	overy USB	Downlo	ad Data	Translate	Barcod	es Set	p Print Barcodes	Alarms	Information
Translate		Scan No	Serial No	Time	Date	Temp	SCL	Alarm	Barcode	Trans	lation
Barcodes		1	666666	15:43:24	27/05/14	21.0	с	ок	CHILLER1	1	
Get Data		2	666666	15:43:36	27/05/14	20.9	с	LAL	ROASTCKN1		
		3	666666	09:15:19	28/05/14	18.2	C	HAL	FREEZER2		
Clear		4	666666	09:15:26	28/05/14	18.4	C	OK	CHILLER1		
creen Data		5	666666	09:15:35	28/05/14	19.0	C	L AL	R0ASTCKN1		
	•	-				-					
Save Data	*						1				
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Other functions within the Download Data tab

- 1. Clear Screen Data clears downloaded data from software
- 2. Latest scan displays the latest scan
- 3. Live data displays the instrument's data in real time (scan no, serial number, time, date temperature, temperature scale, alarms, barcode)
- 4. Clear instrument clears all data stored within the instrument's memory
- 5. **Print preview** allows you to preview your data before printing
- 6. Print setup allows you to set up your printer
- 7. Print print data directly from software
- 8. **Save Data** saves your data as a CSV (comma separated value) file

Retrieving information - *Translating Barcodes*

Your TME software has the ability to 'translate' your barcodes to a user specified description. This is particularly useful if your barcodes are coded to represent a product or location.

Select the **Translate Barcode** Tab to enter your barcode and the description you wish to use - you can either load a CSV file with barcodes and descriptions or enter the information manually. To enter manually, type in the barcode followed by the product description.

When complete, this information may be saved to a file and reloaded for subsequent downloads. To reload the file, select *Open File*

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00		LBERRY LBERRY UNG-BY- RTHING ST SUSSI 2 4RD	LANE SEA	Inst Nam		Status TMEINSTO		Version 8500		
TECHNOLOGY IN TEMPE		01903		Seria	al No	123555			www.trr	electronics.co.uk
Message Box	Not Connected	1								
Select Bluetooth	Discovery	USB	Download	Data	Translat	te Barcodes	Setup	Print Barcodes	Alarms	Information
	Enter Bi	arcode	information	-	barcode,	description				
	Barcode				Descr	iption				
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To upload your barcodes to your MM7100-2D instrument, select *Load File.* This will store the barcode information on your device. You are now ready to download and translate your barcode information from the instrument.

Select the **Download Data** tab and then tick the **Translate Barcodes** box and press the **GET DATA** button.

You will now find that the barcode information will have the description you have provided under the translation column.

Retrieving Information – *Viewing logged Data on your Device*

Your MM7100-2D allows you to recall logged data on the device.

Simply press the *Arrow Buttons* on the keypad to view the **temperature**, **barcode information**, **date** and **time** of any previous logs or scans. The store number is given at the top right of the display.



High and Low Alarms - *Generating your Alarms in TME software*

You can generate your alarm parameters for existing product barcodes within your TME software.

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	-	Enter Alams D					te Bar	codes	Setup	Print Barco	des	Alarms	Information
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	er More Ala		_	Maste	and Enter r Alarm Master Leg	_		Leg					

Firstly, discover and connect your instrument.

Select the **Alarms** tab and enter the product barcode text which you would like to assign the alarms to, followed by the high alarm limit and low alarm limit. Select **Upload Alarms to Instrument**

The alarm values are now assigned to this barcode and you are ready to use your instrument. When you scan this Barcode any alarm condition will be displayed on the instrument.

Alternatively, you can open an existing CSV file and upload the alarms to the instrument.

Adding Remedial Actions to your Alarms

With the MM7100-2D, there is the option for you to set your own remedial action message for an alarm situation.

Within the **Alarms** tab, enter (or upload) your product barcode text followed by your High alarm message and Low alarm message. Select **Upload Alarms to Instrument**

	DE Box Erter	MULBERRY MULBERRY GORING BY WORTHING WEST SUISS BN12 4800 FAX: 01903 FAX: 01903 Mams Download	LANE SEA EX 740651 244307	Nan Seri	al No	Sta	tus	5	Venior 8550		www.te	electorica co
elect Bl	luetooth Disc	overy USB	Download	d Data	Translat	e Bar	codes	Setup	Print Bar	codes	Alarms	Informatio
Oper Alarm F	ile Save Alarm Fi	le 🗌	Check Alarms						load Alarn Instrumer			load Alarms instrument
io	Barcode			gh	Low	Leg	High A	Alarm M	essage	Lov	Alarm 1	Message
	Chicken 1		80		75		Remov	e from	oven	Adju	st oven	temp
	Chiller 2		5		0		Adjust	high		Adju	st Low	
	More Alarms C	o to last Emp	Master Ala		Details		Lea					
o Enter												
	arms Alarm Co	unter	Upload Mas									

Your alarm values and remedial message have now been assigned to your product barcode. When the barcode is scanned, your alarm condition will be displayed with the remedial action. As an example, the following picture is showing the display indicating that there is a legionella risk with the remedial message advising to 'run water for 2 minutes'.



Generating your Alarms in TME software -Setting Global Alarms

The Global Alarms feature allows the user to set a global alarm to the instrument.

Under the **Alarms** tab, select *Click Here to Set Global Alarm.* This will display the Global alarm fields.



Enter the high and low alarm fields, you also have the option of setting a remedial message. Select *Upload Global Alarm to Instrument*

The instrument has now been set with these alarm values and is ready to use.

Generating your Alarms in TME software - Using your MM7100-2D for water temperature testing (Legionella)

Your TME software includes a feature which will set your instrument to the alarm limits for legionella temperature testing as recommended by the health and safety executive. The legionella bacterium multiplies at temperatures between 20.0°C to 50.0°C.

To use this feature, go to the **Alarms** tab and enter the <u>capital</u> letter 'G' under the **Leg** field and then **Upload Master Leg**

Master Alarm		Leg
Upload Master	Leg	G
Clear Screen	Clear In	nst Alarms

Your instrument will now be set to alert you if the temperature falls between 20°C and 50°C by displaying 'LEGIONELLA RISK'.

Other functions in the Alarms tab:

1. Open Alarm File - opens an existing CSV file

2. Save Alarm File - Saves your barcode and alarm data

3. Upload Alarms to Instrument - uploads your barcode, alarm and message data to your instrument

4. Download Alarms from Instrument - downloads any pre-

programmed barcodes, alarms and messages from your instrument

5. Check Alarms - checks the alarms which have been listed for any errors

6. Upload Master Leg - uploads master legionella alarm to the instrument

7. Clear Screen - clears screen of data

8. Clear Inst Alarms - clears all alarms on the instrument

9. Upload Global Alarm to Instrument - uploads the global alarms to the instrument

10. **Download Global Alarm from Instrument** – downloads the global alarms which have been set to the instrument

11. **Delete Global Alarms** – deletes the global alarms which have been set to the instrument

High and Low Alarms - *Manually generating your Alarm Barcodes*

As well as having the ability to pair your alarms with product barcodes within your TME software, you can also manually generate an alarm barcode and pair it to a product barcode.

To generate your alarm barcode you must use the following code template:

--H____

"H" stands for the high alarm limit and "L" stands for the low alarm limit. Each of the 4 digit spaces after the defining limits are laid out in this order:

Hundreds, Tens, Units, Decimal

For example:

60°C High Alarm Limit and 30°C Low Alarm Limit will be entered as: *--H0600L0300*





250°C High Alarm Limit and 100°C Low Alarm Limit will be entered as: *--H2500L1000*





5°C High Alarm Limit and 1.2°C Low alarm Limit will be entered as: *--H0050L0012*





You can generate barcodes on your PC or use the TME Barcode Printer.

Manually generating your Alarm Barcodes -Preset Alarm Codes

There is a preset alarm barcode for Legionella temperature monitoring. This is preset with the temperature limits of 20.0° C to 50.0° C – the temperature range at which the legionella bacterium multiplies. This Barcode is:

--HLEG And the barcode will be:



Manually generating your Alarm Barcodes -Global Alarms

To set alarms to all readings use the following format:

*--A B *

The capital A stands for the high alarm limit and the capital B stands for the low alarm limit. Each of the 4 digit spaces after the defining limits are laid out in this order:

Hundreds, Tens, Units, Decimal

To set Legionella Alarm limits to all readings use:



And the barcode will be:





Manually generating your Alarm Barcodes - Assigning Alarm values to a Barcode

Once you have generated your alarm barcodes, you will need to assign them to your product or location barcode.

To assign barcodes, firstly scan your product/location barcode and then scan your alarm barcode. The device will then store this information and the barcodes will now be assigned to the chosen alarm values.

Manually generating your Alarm Barcodes -Taking a reading with assigned barcodes

Temperature readings are taken as previously described (see 'to take a reading'). Scan the paired product/location barcode. You will now find that when the product/location barcode is scanned, the display on the device will indicate whether the temperature taken is above or below the alarm limits. The display will then revert back to a normal temperature display.

Deleting Alarms

Alarm barcodes can be deleted by generating the following 'delete' barcode. You are able to use the barcode in this manual if you wish:



To delete alarms, firstly scan the product/location barcode and then the delete barcode. To delete Global Alarms use:

--E And the barcode will be:



Understanding displayed alarms

The following alarm conditions will be displayed on your instrument:

'High Alarm'	= High Alarm limit breached
'Low Alarm'	= Low Alarm limit breached
'Alarms Ok'	= Within Alarm Limits
'Legionella Risk'	= Outside of safe Legionella temperature limits
'No Alarms Set'	= No alarm has been set to the product barcode

When data is downloaded to the TME software using the **Download Data** tab, the following codes apply:

'H AL'	= High Alarm
'L AL'	= Low Alarm
'OK'	= Within Alarm Limits
'NO A'	= No alarm limits set for Barcode
'NO I'	= No input
'LEG'	= Outside of Legionella Limits (i.e. between 20°C and 50°C)

Using a TME Bluetooth Printer -Pairing your instrument to a TME Bluetooth Printer

You are able to print data (print header, time, date, temperature and barcode information) directly from your instrument to a TME Bluetooth Printer. To do this, you must firstly pair the two devices:

Discover the instrument and printer you wish to pair in the software.

When discovered, highlight the address of the instrument and printer and press *Link Printer to Instrument*. This will pair the two devices together. To check that the devices are paired, click the *Read Printer Linked to Instrument*. The printer address will appear in the field below to indicate that the devices are paired.

The devices are now ready for use. Note: you can create a print header in the **Setup** tab.

Using a TME Bluetooth Printer - Printing Data from your paired instrument and printer

You have the option of printing either the last reading or all data from the instrument.

To print single data, firstly ensure that your printer is on and that your instrument is in Bluetooth mode.

Press the *Down Arrow* button on the instrument. You will find that the display will show the letter *S*. Release the button.

The printer will print out your latest scan data.

To print all data, press and **hold** the *Down Arrow* button. You will find that the display will change from the letter S (single) to the letter A (all). The printer will print out all your data.

Using a TME Bluetooth Printer - Printing your Barcodes using the TME Barcode Printer

You are able to print your barcodes directly from the software to the TME Barcode Printer.



To do this, you will firstly need to connect your Barcode Printer to the software.

Select the **Print Barcodes** tab and click the **Discover Printers** button. You will find that the printer's address has been listed in the **Printer Address** field - highlight this and select the **Connect** button.

DOC	GOI WO WE	LBERRY LBERRY RING-BY- RTHING ST SUSSI 12 4RD	SEA	Inst Nam	rument 1e	Status		Version 8.500			CI ST
CHNOLOGY IN TEMPERATUR		: 01903 7 : 01903 7		Seri	al No			1		www.tm	electronics co u
Message Box Conn	ected										
elect Bluetooth Dis	covery	USB	Download	Data	Translat	e Barcodes	Setup	Print Bar	codes	Alarms	Information
Discover Printers									Con	nect	Disconnect
									Conn	ected	
Enter											
rinter Address											
(00:07:80:89:89:33)			1								
Please Select Printer	From lis	st abov	ve								
Please Select Printer	From lis	st abov	ve								
Please Select Printer Click Here To Gene											
							Mu	ltiple Barc	ode Te	ext (Max	: 12 Chars)
						Open	Mu	tiple Barc	ode Te	ext (Max	: 12 Chars)
						Open	Mu	tiple Barc	ode Te	ext (Max	: 12 Chars)
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							Mu	itiple Barc	ode Te	ext (Max	: 12 Chars)
						Open	Mu	tiple Barc	ode Te	ext (Max	: 12 Chars)
Please Select Printer Click Here To Cene Single Barcode Text	rate Ala	rm Baro	codes				Mu	tiple Barc	ode Te	ext (Max	: 12 Chars)

The printer is now connected and you will have the option of creating single barcodes or multiple barcodes.

Using a TME Bluetooth Printer - Printing Alarm Barcodes from your TME Bluetooth Printer

Users of the TME Barcode Printer may print alarm barcodes from the software.

					_10
000	MULBERRY HOUSE MULBERRY LANE GORING-BY-SEA WORTHING WEST SUSSEX BN12 4RD	Instrument Name Serial No	t Selected Thermoscar 666666	1	
TECHNOLOGY IN TEMPERATURE www.tmelectronics.co.uk Message Box Discovery Co	TEL: 01903 700651 FAX: 01903 244307				Vesievitzoz
Discover Printers Printer Address (00.07:80:89:89:33					nected
Please Select Printer from list abo	ove				
Click Here To Generate Alarm Barco		 Save	Multiple Ba	rcode Text (Max 12	Chars)

Discover your printer as previously (after selecting your system's Bluetooth)

Go to the **Print Barcodes** tab, highlight the printer address and *connect.* Your printer will now be connected.

Select *Click Here To Generate Alarm Barcodes.* This will display the fields required for generating your alarms.

To generate a barcode with high and low alarms, enter your high limit and low limit and then select *Generate Barcode For Alarms Above*

The information will appear in the *Single Barcode Text* field. To print the alarm barcode, select *Print.*

If you wish to generate a Legionella alarm barcode, select *Generate Legionella Alarm Barcode*

To print the Legionella alarm barcode, select Print

The process will be the same for generating and printing the delete barcode.

New Countdown timer

The MM7000 range now has a new built-in 1 & 2 minute timer function. This is to help the user comply with the HSE ACoP L8 requirement that hot water run at a tap reaches the required temperature within one minute and the cold water within two minutes. This feature is designed to ensure that the correct temperature is being taken when carrying out hot and cold water checks. When the timer is activated, a counter will appear at the top right of the instrument display but the instrument will only record the temperature once the time count is complete.

The timer is activated by using a barcode pre-fixed with either '--1' for one minute or '--2' for two minute timer. For example:-

For one minute timer (hot water) the barcode could be-

For two minute timer (cold water) the barcode could be-

To take your readings using the timer, first scan your barcode to activate the timer followed by your location/asset barcode. Hold your temperature probe under the running water. Once the timer count is complete, the temperature will be recorded alongside the location barcode together with the time and date.

Alternatively, you can prefix your location barcodes with '--1' or '--2'. This will start the timer in the same way but will automatically log the temperature data against the location barcode on completion of the timer count. If you are unsure whether your MM7100-2D has this feature or if you would like to upgrade, please feel free to contact our sales team on (01903) 700651 or sales@tmethermometers.com

Generating Log Books from your downloaded data

Please go to <u>www.tmetherometers.com</u> where you will find an example of how to set up your log book.