



INSTRUCTION MANUAL
MT994
MULTIFUNCTION PROCESS CALIBRATOR



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1. SAFETY INSTRUCTIONS

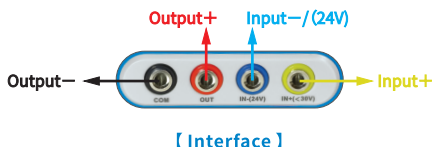
- This manual introduces the detailed using methods, precautions and relevant matters of the product. Before using the product, please read the manual carefully in order to operate the device in the best performance.
- Don't use the instrument in a flammable and explosive environment
- Used batteries for instrument and discarded instruments cannot be disposed of with household waste. Please handle in accordance with relevant national or local laws and regulations
- When there is any quality problem with the instrument or when there is a question about using the instrument. You can contact Major Tech customer service and we will resolve it for you.

2. PRODUCT OVERVIEW

2.1. Function Introduction

- **Conversion Of Engineering Quantity Display:** Signals are displayed as physical or engineering (ie pure quantity) values. The physical quantity corresponds linearly with the engineering quantity. For example: the current signal of 4~20mA corresponds to 0~100, that is, 4mA corresponds to 0, 12mA corresponds to 50, and 20mA corresponds to 100. This range can be modified by parameters.
- **Preset Value:** 4 groups of commonly used signal values can be preset to facilitate a quick adjustment of output.
- **Signal Conversion:** The input signal is converted into an output signal, which can be converted between different physical quantities; for example: the input frequency signal is converted into a current signal, and the input range is 0-1000Hz into 4-20mA.
- **Programming Output:** It has the output function of automatically and continuously changing the size according to the setting parameters, and can choose three modes: monotonous rise, monotonous fall and cycle.
- **Real-time Curve:** The change trend of input and output signals can be displayed by drawing a curve, and the sampling time of the curve can be set. It can also automatically adjust the display curve within the range of the maximum and minimum values within a certain period of time.
- **Modbus Slave:** The MT994 can communicate with configuration software or PLC via RS485 to set the instrument.
- **Firmware Upgrade:** USB emulated U disk for firmware upgrade.

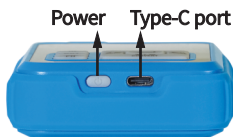
2.3. Interface Terminal



- There are 4 inner diameter 4mm wiring ports on the top surface, which are represented by different colour rings.
- The blue port (IN-) is an alternate function, and it is also an input-, which can be switched to a 24V independent test power supply. The (IN-) port is internally shorted with the black (COM) port in the input state. When the (IN-) port is an independent power supply, there is a 24V voltage between the (COM) port.
- Red (OUT) port and black (COM) port form an output port.
- Yellow (IN+) and blue (IN-) form the input port.
- When the (IN-) port is an independent power supply, it can be called a (24V) port, and it forms an output port pair with the (COM) port.

WARNING: The safety limit voltage of the input terminal cannot be greater than 30Vpp, and the over limit will damage the equipment.

2.4. Power & Charge

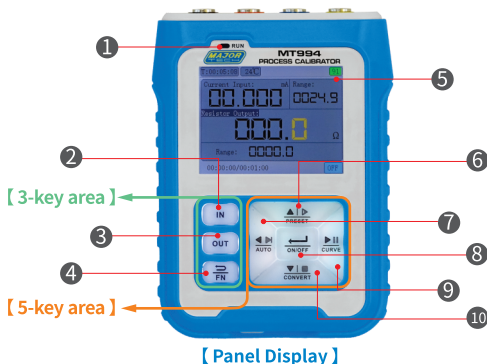


- Built-in battery: 3000mA large capacity lithium battery.
- Battery display: Displays the current battery level in the upper right corner of the display.
- Charging port: Type-C port (DC 5V-12V).
- State of charge: (Up to 10W) When charging, the power button will display a red light. When fully charged, it will automatically stop charging and display a blue light.

3. BUTTON PANEL INTRODUCTION

- All buttons are made of white translucent silicone material. The colour LED backlight is set under the buttons, which can make the key surface change colour with the change of function and mode, providing a more intuitive status indication.
- The keys are mainly divided into **(3-Key area)** and **(5-Key area)**, and each key has multiple functions. Among them, the **(FN)** Button and the **(5-Key area)** key have the up/down function and the function marked on the key, which will be changed according to the state of the **(FN)** key and the interface mode. Start-up defaults to the up shift function
- **FN** key state is divided into: default white light state and red light state.
- **5-Key area:** The status is divided into: **Button white light** (Manual setting mode); **Button green light** (Preset output mode); **Button blue light** (Programming mode); **No button light** (Conversion mode)

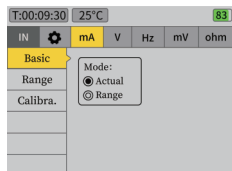
3.1. Button Function Operation Description:



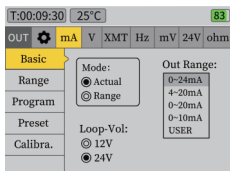
- 1 - **(RUN)** Light: The power on/on output is white light.
- 2 - **(IN)** Input key: Used to switch the input signal mode in the main interface; When **(FN)** red light is on, click **(IN)** to enter the input setting.
- 3 - **(OUT)** Output key: used to switch the output signal mode on the main interface. When the **(FN)** red light is on, click **(FN)** to enter the output setting.

- 4 - **(FN)** Exit Return key: In the main interface, click **(FN)**, it will turn into a red light to activate the downshift function of other keys (enter different modes, etc.). In the setting interface, the function of **(FN)** is to return.
- 5 - **(Main Interface)**: Main display interface.
- 6 - **(PRESET)** Up function key: When the key is white, it is to add value or select upward (when the output pulse is quantitative and the cursor is not in, it is the same as the programming mode). In the history curve interface, it is a quick right shift of 100. When the **(FN)** red light is on (the button is green), click **(PRESET)** to enter/exit the preset output mode. At this time, the up, down, left and right buttons can quickly recall the preset signal value.
- 7 - **(AUTO)** Left function key: when the key is white, it is to select to the left (when the output pulse is quantitative and the cursor is not present, it is the same as the programming mode). In the history curve interface, the cursor is moved to the left point by point. When the **(FN)** red light, click **(AUTO)** to enter/exit the programming mode (the button blue light), at this time, the up key-single output, the down key-reset, the left key-end the output, the right key-pause/continue.
- 8 - **(ON/OFF)** Confirmation button: when the main interface (turn on/off the output); When the **(FN)** is red light (click to turn on/off the recording); when setting the interface (Click for "OK").
- 9 - **(CURVE)** Right function key: When the key is a white light (select to the right ~ when the output pulse is quantitative and the cursor is not in, it is the same as the programming mode). In the history curve interface, the cursor is moved to the right point by point. When **(FN)** is red light (click to switch curve interface/character interface).
- 10 - **(CONVERT)** Down function key: When the key is white, it is to decrease the value or select down (when the output pulse is quantitative and the cursor is not in, it is the same as the programming mode; When **(FN)** is red light (click to enter/exit the conversion mode).

4. DISPLAY & SIGNAL DESCRIPTION



[Input Signal Settings]



[Output Signal Settings]

4.1. Switching Of Signal Types

- Press **(FN)** on the main interface. After the **(FN)** button turns red, if you want to switch the input signal type, press the **(IN)** button to enter the input setting
- If you want to switch the output signal type, press **(OUT)** key to enter the output setting. After entering the setting interface, you can directly select the desired signal type from left to right. Press **(FN)** to exit to the main interface.
- There are also a variety of signal modes available for switching under various signal types. Various signal types also have different parameters that can be set.

4.2. mA Current Signal

- **Mode Switch:** When the main interface **(FN)** is white, press **(IN/OUT)** to switch the display of input/output actual value and engineering quantity.
- **Output Open Circuit Detection:** When the output is turned on, if the interface displays open circuit and flashes, it means that the output signal is not connected or the output is close to zero.
- **Output Circuit Voltage:** The MT994 can set current output no-load voltage. The purpose of 12V is to save power. Some devices require a 24V drive capability.
- **Output Range:** The limit range of the current output can be set.

4.3. V Voltage Signal

- **Mode Switch:** When the main interface **(FN)** is white. Press **(IN/OUT)** to switch the display of actual value and engineering quantity of input/output.
- **Overcurrent Protection:** If the output voltage is shorted, the output will automatically shut down.
- **Output Range:** The limit range of the voltage output can be set.

4.4. XMT Passive Current Signal

- **Mode Switch:** When the main interface **(FN)** is white. Press **(IN/OUT)** to switch the display of actual value and engineering quantity of input/output.
- **Output Range:** The limit range of passive current output can be set

4.5. Hz Pulse Signal

- **Mode:** The pulse signal has four modes: frequency, PWM duty cycle, speed frequency, pulse quantitative/counting. For input, when the main interface **(FN)** is white, press **(IN)** to switch the mode directly. For output, long press **(OUT)** to switch mode.
- **Range:** Select the range of frequency output: 0~99.999Hz, 0~999.99Hz, 0~9999Hz, 0~200kHz.
- **Method:** Select level/open circuit according to the presence or absence of pull-up.

- **Output Peak Value:** The level height of the output waveform, the highest is 24V.
- **Input Counting Method:** The rising edge means that the level rises from 0V to the peak value of the pulse, and the counter is incremented by 1. A falling edge indicates that the input level falls to the 0V counter and increments by 1. Jump means that as long as the input level jumps up and down, the counter is incremented by 1. Long press (**IN**) to clear the count.
- **Frequency Mode Operation Instructions:** The input frequency range is 0~9999Hz, which cannot be selected, and the displayed decimal point is automatically shifted. The output frequency range can be switched by pressing (**OUT**) when the main interface (**FN**) is white.
- **Operating Instructions In PWM Mode:** PWM displays two parameters, the frequency value (that is, the period value) and the duty cycle. The frequency value will be displayed in the original engineering quantity position (no engineering quantity display). Note that the maximum frequency does not exceed 9999Hz. The frequency value/duty cycle parameters can be set when outputting. When the main interface (**FN**) is white, press (**OUT**) to switch, there is a yellow cursor indication.
- **Operating Instructions For Speed Mode:**
 1. The speed mode is used to calculate the speed of the motor or gear. One revolution of the motor or gear produces 1 pulse, one minute is 3000 revolutions, so 1 second is 50 pulses.
 2. **Time Unit:** $\text{Frequency} = \text{RPS}(\text{per second}) \times \text{number of pulses per revolution}$, $\text{RPM}(\text{per minute}) = \text{RPS} \times 60$, $\text{RPH}(\text{per hour}) = \text{RPS} \times 3600$. In the speed setting selection, note that the maximum frequency does not exceed 9999Hz.
 3. **Number Of Revolution Pulses:** The number of pulses per revolution of the motor or gear, which can be selected in the speed setting.
 4. **Tooth Missing:** It is mainly used to simulate the engine speed, select it in the speed setting.
- **Quantitative/Counting Mode Operation Instructions:** The main purpose of pulse quantitative is to simulate the quantitative control sensor of flow, and the pulse count is to simulate the flow of count. For inputs, the input frequency value will be displayed in the original quantity position. For output, the cycle is displayed at the original engineering position, and the unit is milliseconds. When the main interface (**FN**) is white, press (**OUT**) to switch between cycle and quantitative values, which are distinguished by cursors. The period value can be modified during quantitative output. In this mode, when the cursor disappears after the output is turned on, the backlight of the up, down, left, and right keys will turn blue. The function of the up, down, left, and right buttons will also change, that is, the up is a single pulse sent. Down is program stop and reset, left is no function, right is start/pause.

4.6. mV Millivolt Signal

- **Mode:** The millivolt signal is divided into three modes: 110mV, thermocouple, WR thermocouple, in the main interface. When **(FN)** is white, press **(IN/OUT)** to switch.
- **Type:** Select the type of thermocouple TC-S, B, E, K, R, J, T, N.
- **WR Type:** Select the type of WR thermocouple WRE25, WRE26.
- **Temperature Unit:** Set to Celsius or Fahrenheit.
- **Cold Junction Setting:** Select the temperature detected by the meter or the user-defined temperature.
- **Cold End Temperature:** Customized cold end temperature value.

4.7. 24V Loop Detection

- Select the 24V label left and right in the OUT signal type interface to enter this function state. In this state, displays the output 24V loop current on the main interface. Unlimited input signal detection type.
 1. **Loop 1:** After starting the output, 24V voltage is output between the (OUT) port and (COM) port, and the loop current is detected at the same time, and the current is displayed in the "output 24V loop" area. This function can be used to test, for example, pneumatic control valves or two-wire transmitters, supply them with 24V power supply and detect current.
 2. **Loop 2:** After activating the independent 24V power supply. The (IN-) port outputs 24V voltage between the (24V) port and the (COM) port. It does not affect the detection type of the input signal by the (IN+) port. In this case, select mA for the input signal type. Then the (IN-) port can be combined with the (IN+) port to form a 24V output, and at the same time detect the current loop. The function is similar to the circuit one.
 3. Port (IN-) can be switched to independent 24V power supply function. It outputs a single DC24V voltage, which is the (24V) port at this time. (24V) port used with (IN+) to test two-wire transmitters.

NOTE:

1. The difference between 24V loop detection and standalone 24V is: 24V loop detection output signal port to measure feedback current.
 2. Independent 24V port and output port can form 24V power supply, it can also be combined with the input (+) to form a transmitter to supply power and measure the feedback current of the transmitter.
- **Mode switch:** When the main interface **(FN)** is white. Press **(OUT)** to switch the display position of output actual loop current value and engineering quantity.
 - **Activate independent 24V:** After this item is checked, the independent 24V power supply starts to output from the (24V) port (IN-) port and the (COM) port, and is not affected by input and output signal type switching.

- **Activate Hold:** After this item is checked, each time the machine is turned on, the 24V state will remain in the state of the last turn-on. Otherwise, every time you turn on the 24V, you need to turn it on manually.

4.8. Ohm Resistance Signal

- **Temperature Unit:** Set to Celsius or Fahrenheit.
- The resistance signal is divided into three types: Pt100, Cu50, and RES. When the main interface (**FN**) is white, press (**IN/OUT**) to switch
- **Resistance Offset:** Used to correct the resistance value of input/output

5. EXTENSIONS

5.1. Engineering

- When the signal value of analogue quantity is used in the industrial field, it is generally necessary to convert it into engineering quantity value. Therefore, in the input and output settings of each signal, the instrument can set the upper and lower limits of its engineering quantity and the upper and lower limits corresponding to the signal value.

5.2. Preset Value

- **Parameter Setting:** You can set the signal value corresponding to the up, down, left and right buttons.
- **Operation Instructions:** Start and Exit: When the main interface (**FN**) is red, press the up key (**PRESET**) to Start/Exit the preset.
- **Up, Down, Left And Right Keys:** After starting the preset, the backlight of the up, down, left and right keys will turn green, and the key function will also change to "output the set value".

5.3. Signal Conversion

- The input signal is converted into an output signal. For example: the input frequency signal is converted into a current signal, and the input range is 0-1000hz and converted into 4-20mA
- **Parameter Settings:**
 1. Input upper limit/input lower limit: the amplitude range of the input signal
 2. Output upper limit/output lower limit: the amplitude range of the output signal
 3. Overrun allowed: For example, 1-5V is converted into 4-20ma. If the user checks this option, when the input is 0V, the output will follow to 0mA. If the user does not check it, then the output is 4mA and the output is locked within the set range.
 4. Automatic operation: After checking this option, the signal conversion will be automatically started at the next power-on, and the signal conversion will be automatically canceled when the signal conversion is exited.
- **Instructions:** Start and Exit: When the main interface (**FN**) is red, press the key (**CONVERT**) to start/exit the signal conversion mode. After

startup, the backlight of the up, down, left and right keys will turn off and have no function.

5.4. Program Output

- The programming output can automatically complete N cycles of signal output according to the parameters set by the user. This function is mainly used for the aging test of electric valve or pneumatic valve, or test work such as PLC program debugging.
- Parameter Settings:
 1. **Mode:** It is divided into three modes: single rise, single fall and cycle.
 2. **Number of loops:** 0 is infinite, 30000 is the maximum.
 3. **Start value:** The value at each start.
 4. **End value:** The value at the end of each.
 5. **Increment step value:** The value of each increment.
 6. **Increment step time:** The time between each increment.
 7. **End stop:** The time delay at the end value.
 8. **Decrement step value:** The value to decrease each time.
 9. **Decrease step time:** The time between each decrease.
 10. **Loop stop:** Time delay at start value.
- **Supplementary Parameter Description:** The start value and end value of single rise and single fall are selected according to high and low, and does not automatically close.
- **Instructions:**
 1. Start and Exit: When the main interface (**FN**) is red, press the left key (**AUTO**) to start/exit the programming output mode.
 2. Up, Down, Left and Right keys: After starting the programming output mode, the backlight of the up, down, left and right keys will turn blue. The functions of the up, down, left and right buttons will also change, that is, the top is a single run, the bottom is a program reset, the left is a single-step run, and the right is a Stop/Continue.

5.5 Real-time Curve

- **Instructions:** When the main interface (**FN**) is red, press the right button (**CURVE**) to switch the interface with/without curve.
- **Parameter Description:**
 1. Turn on the output curve: turn on the following display curve of the output signal (Red line).
 2. Automatic output scaling: automatically adjust the scale range of the output signal, and automatically adjust the scale range of the y-axis with the maximum and minimum values of the curve.

3. Input automatic scaling: automatically adjust the scale range of the input signal, and automatically adjust the scale range of the y-axis according to the maximum and minimum values of the curve.
4. Acquisition time: the refresh interval of the curve, and the time scale will also change with it.

5.6. History Record

- **Enable/Close Recording:** When the main interface (**FN**) is red, press (**ON/OFF**) to enable/disable recording. When turned on, the top of the screen will flash to display the record number.
- **View Record :** Select the record you want to view in the setting interface history record, (**ON/OFF**) confirm to enter the view. When entering the viewing record, the backlight of the up, down, left, and right keys will turn yellow, and the functions of the up, down, left, and right keys will also change; that is, up and down is to view the 100 record values before and after the forward, and left and right is to view the 1 record value of the forward and backward.
- **Delete Record:** When viewing the record, press (**ON/OFF**) to choose whether to delete this record.

5.7. Output Time

- **Output Activation Output Time:** When checked, each output will automatically turn off the output after the output time expires.
- **Output Time:** Set output time.

5.8 Communication

- **USB connection:** Because the USB analog serial port is used for communication. charging will slow down.
- **Slave address:** MODBUS slave address. (Please refer to the attached table 1, 2, 3 on page 16 for the address and description of the instrument register).

6. WIRING INSTRUCTIONS



PLC/Process
instrument, etc.

**All Switched by Electronic Switches
(All-round Signal Output):**
Current / Voltage / Millivolt / Frequency /
Resistance / Thermal Resistance / Various
Thermocouple Signals



PLC/Process
instrument, etc.

All Switched by Electronic Switches (All-round Signal Output):

Current / Voltage / Millivolt / Frequency /
Resistance / Thermal Resistance / Various
Thermocouple Signals.



Valve position
given
Valve position
feedback

Pneumatic
valves

Switch this input (-), the port to 24V,
as the power supply for the valve
feedback, the input and output are
carried out at the same time.



Valve position
given
Valve position
feedback

Pneumatic
valves

This input (-), the port is closed to 24V,
as the negative pole of the input
signal, the input and output are
performed at the same time.

7. FAULT RESOLUTION & EQUIPMENT MAINTENANCE

7.1. Fault Resolution

- **No response when MT994 is turned on:**
 1. Determine if the battery has power and if the indicator light is normal when charging.
 2. Firmware upgrade error operation leads to system crash.
- **Abnormal screen display:** Check if the screen is connected properly.
- **Abnormal output value or measured value:**
 1. Check the signal line.
 2. Check the interface for signal selection.
 3. The target parameter of the connection exceeds the range indicated by the technical indicator. (It may cause the instrument to work abnormally or even damage).
- **Error in input and output:** It is normal that there may be errors in input and output. Because the input and output are not isolated.

7.2. Equipment Maintenance

- The meter is powered by 3.7V rechargeable lithium battery, please use the power adapter to extend battery life when using it for a long time.
- This instrument is not waterproof, please do not use it in a high humidity environment.
- Do not place the unit in a place that is unstable or may be subject to strong vibrations.
- Do not place this unit in places with high humidity, dust, direct sunlight, outdoors, or near high temperatures.

7.3. Firmware Upgrade

- MT994 uses USB emulated U disk for firmware upgrade.
- **Upgrade Steps :**
 1. Plug the meter into the PC, and turn it on. Wait for the PC to recognize the USB drive named "Bootloader".
 2. Copy the firmware to be upgraded to the U disk.
 3. After a few seconds, the device is powered on normally and the upgrade is successful.

Note:

1. If the U disk cannot be recognized normally when connected to the PC in the power-on state. At this point, please shut down and restart!
2. USB firmware upgrade only supports WIN10. It is forbidden to drag and drop files other than those officially released. Otherwise, it is very likely to cause irreversible consequences.

8. SPECIFICATIONS

Signal	Range	Precision	Resolution	Impedance
Current (mA)	0~24mA	$\pm(0.02\%+0.003)$	0.001mA	100 Ω
Voltage(V)	0~24V	$\pm(0.02\%+0.003)$	0.001V	500K
Passive (XMT)	0~24mA	$\pm(0.02\%+0.003)$	0.001mA	100 Ω
24V loop	0~24mA	$\pm(0.1\%+0.005)$	0.01mA	100 Ω
FRQ (Hz)	0~9999Hz	$\pm 2\%$	5 digits	1MK
mV	-10~100mV	$\pm(0.03\%+0.03)$	0.01mV	2K
TC (TC-S)	0~1760°C	$\pm(0.2\%+1)$	1°C	2K
TC (TC-B)	0~1810°C	$\pm(0.5\%+1)$	1°C	2K
TC (TC-E)	0~990°C	$\pm(0.2\%+1)$	1°C	2K
TC (TC-K)	0~1320°C	$\pm(0.2\%+1)$	1°C	2K
TC (TC-R)	0~1760°C	$\pm(0.3\%+1)$	1°C	2K
TC (TC-J)	0~1190°C	$\pm(0.3\%+1)$	1°C	2K
TC (TC-T)	0~390°C	$\pm(0.2\%+1)$	1°C	2K
TC (TC-N)	0~1290°C	$\pm(0.2\%+1)$	1°C	2K
TC (WRe3/25)	0~2320°C	$\pm(0.2\%+1)$	1°C	2K
TC (WRe5/26)	0~2320°C	$\pm(0.2\%+1)$	1°C	2K
RES (ohm)	0~390 Ω	$\pm(0.2\%+1)$	0.1 Ω	/
Pt100	-200~650°C	$\pm(0.5\%+1)$	0.1°C	/
Cu50	-20~150°C	$\pm(0.5\%+1)$	0.1°C	/

Function code	Hexadecimal	Type of data	Attributes
100	0x64	uint16_t	read
101	0x65	uint16_t	write
102	0x66	float	read
103	0x67	float	write

【Schedule 1】

Address	Hexadecimal	Type of data	Attributes	Illustrate
40001	0X9C41	uint16_t	read	Firmware version
40002	0X9C42	uint16_t	RW	Input signal
40003	0X9C43	uint16_t	RW	Output signal
40004	0X9C44	float	read	Input value
40006	0X9C46	float	RW	Output value
40008	0X9c48	uint16_t	RW	Software output mode and output switch
40009	0X9C49	uint16_t	RW	Active current output value USER upper limit
40010	0X9C4A	uint16_t	RW	Active current output value USER lower limit
40011	0X9C4B	uint16_t	RW	Voltage output value USER upper limit
40012	0X9C4C	uint16_t	RW	Voltage output value USER lower limit
40013	0X9C4D	uint16_t	RW	Passive current output value USER upper limit
40014	0X9C4E	uint16_t	RW	Passive current output value USER lower limit

【Schedule 2】

	Enter
Register upper 8 bits	01 is current; 02 is voltage; 03 is frequency; 04 is millivolt; 05 is resistance
Register lower 8 bits	The upper four bits are the type: 1-8 represent S, B, E, K, R, J, T, N in turn Lower four-bit mode: 1 is mV, 2 is thermocouple, 3 is WR thermocouple

【Schedule 3】

【Example】Write input millivolt signal, J thermocouple type							
01	65	9C	42	04	62	40	AF
slave address	function code	register address	register address low byte	Register number high byte	Register number low byte	CRC high byte	CRC low byte
Illustrate: 01: Slave address set by the device; 65: Write function code, see Table 1; 9C42: Read and write input signal address, see Table 2; 04: 01 is current, 02 is voltage, 03 is frequency, and 04 is millivolt, 05 is the resistor; 62: the upper four bits are the type: 1 is S, 2 is B, 3 is E, 4 is K, 5 is R, 6 is J, 7 is T, 8 is N, the lower four bits mode: 1 is millivolt, 2 is thermocouple, 3 is WR thermocouple; 40AF: CRC code (note! Send in hex)							







MAJOR TECH (PTY) LTD

South Africa

🌐 www.major-tech.com

✉ sales@major-tech.com

Australia

🌐 www.majortech.com.au

✉ info@majortech.com.au

