SUPPLIER DECLARATION OF CONFORMITY (SDOC)

SDoC identification Number: Major Tech MT952 Digital Tachometer Non-contact - Contact SDOC

Issuer details

Name (of New Zealand manufacturer or importer):

Marshire Investments (NZ) Limited t/a Hamer

Telephone: 0800 239 239

New Zealand Company No. (if applicable): 96793

Email Address: sales@hamer.co.nz

Contact Address:

27 Dalziel Place
Woolston
Christchurch 8023
New Zealand

Details

Major Tech Product:
MT952 - Digital Tachometer Non-contact / Contact

Warnings:
Read, understand, and follow all instructions, cautions and warnings attached to and/or packed with all test and measurement devices before each use
Before each use, verify meter operation by measuring a known voltage or current
Never use the meter on a circuit with voltages that exceed the category based rating of this meter
Always adhere to local and national safety codes. Use personal protective equipment to prevent shock and arc blast injury where hazardous live conductors are exposed
Usage of this meter in any way other than that specified by the manufacturer can impair safe operation, resulting in severe injury or death

HAMER ltd confirms on inspection that the above article is not unsafe to use in NZ and the above article meets the safety requirements and principles of AS/NZ3000 and should be used in accordance within the manufacturer's instructions.

Declaration

Signed for and on behalf of:

Marshire Investments (NZ) Ltd t/a Hamer

Name and position as authorized by the issuer:

Evan Taylor
National Brand Manager

Issuer Identification (as affixed to the article)

DATE: 11th December 2020

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MT952

TACHOMETER

Measures high rotational speeds

Technical Datasheet

MT952

The MT952 is a combination non-contact and contact digital tachometer for convenient, fast and accurate measuring of high rotational speeds up to 100 000 rpm. The MT952 is supplied standard with an adaptor that converts the MT952 into a tachometer for measuring surface and axial speeds. The meter is capable of various measurements such as Rotation Speed, Total Revolutions, Frequency, Surface speed and length. The instrument is ideally suited for use with engines, process machinery, motors and machine tools.

Features Include:

- RPM Contact Range 2 RPM ~20 000RPM
- RPM Non- Contact range 2 RPM ~100 000RPM
- Detecting distance 50 – 500mm
- 5 Digit backlit LCD Display
- Auto Ranging
- Built-in laser spot
- Rotational speed units - RPM and rpm
- Resolution 0.1 RPM
- Total revolutions units - REV
- Frequency units - Hz
- Speed units - M/M (meters/minute), I/M (inches/minute), F/M (feet/minute) and Y/M (yards/minute)
- Length units - M (meters), In (inches), FT (feet) and Yd (yards)
- Data Hold Function
- 40 reading memories - 10 for MAX measurement, 10 for MIN measurement, 10 for AVG measurement and 10 for DATA measurement
- Auto Power Off

General Specifications

Display	:	5 digits LCD display
Accuracy	:	± (0.05% + 1 digits)
Contact Test Range	:	2 to 20,000 RPM
Non-Contact Test Range	:	2 to 99,999 RPM
Tot Test Range	:	1 to 99,999
Resolution	:	0.1 RPM (2 to 9999.99 RPM) 1 RPM (over 10000 RPM)
Sampling Time	:	0.5 seconds (over 120 RPM)
Detecting Distance	:	50mm to 500mm
Time base	:	Quartz crystal
Power Consumption	:	Approx. 45mA
Power Supply	:	9V
Operation Temperature	:	0°C to 50°C (32°C to 122°C)

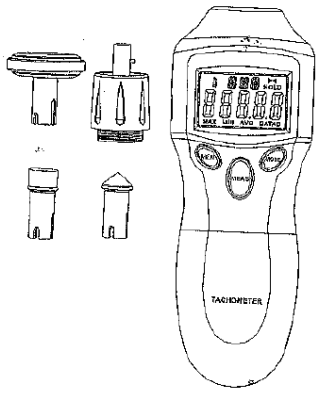
Accessories:

Soft Carrying Case
9V Battery
Instruction manual
3 x MT905
1 x MT952CW

Code	Description
MT952	Major Tech Digital Tachometer Non-Contact / Contact

MT952

USER'S MANUAL
DIGITAL TACHOMETER



1 FEATURE

* The Digital Tachometer provides fast and accurate Contact and Non-Contact RPM and surface speed measurements of rotating objects.
* Measurement type: Rotation Speed (RPM, rPm), Total revolutions (REV), Frequency (HZ), Surface Speed (M/M, I/M, F/M, Y/M) and Length (M, In, FT, Yd).
* Wide measure range and high resolution.
* High visible digital LCD and Backlight display.
* 40 reading memories:
  10 selectable MAX measurements,
  10 selectable MIN measurements,
  10selectable AVG measurements,
  10selectable DATA measurements.
* Laser sighting.

2 SPECIFICATIONS

Display:	5 digits LCD display.
Accuracy:	±(0.05%+1 digits).
Contact Test range:	2 to 20,000RPM
Non-Contact Test range:	2 to 99,999RPM
Tot test range:	1 to 99,999.
Resolution:	0.1 RPM (2 to 9999.9 RPM)
	1 RPM. (over 10000 RPM)
Sampling time:	0.5 sec. (over 120 RPM)
Detecting distance:	50mm to 500 mm.
Time base:	Quartz crystal
Power consumption:	Approx 45mA
Battery:	9V
Operation temp:	0 °C to 50 °C (32° to 122 °C)

3 OPERATION

* Flip open the battery compartment cover and install a 9V Battery.

- **Non-Contact:** Stick the self-adhesive reflective tape on the object whose rotational

speed is to be measured. The reflective tape should be stocked as close to the outer edge of the object to be measured as possible.

Contact: Attach the contact adapter to the tachometer. Select the adapter included and slides it onto the shaft of the contact adapter. Align the adapter with the alignment pin on the shaft of the contact adapter.

* Press the "MEAS" button. Point the laser spot at the object or bring the contact probe to the object. Then read the measurement on the LCD display.

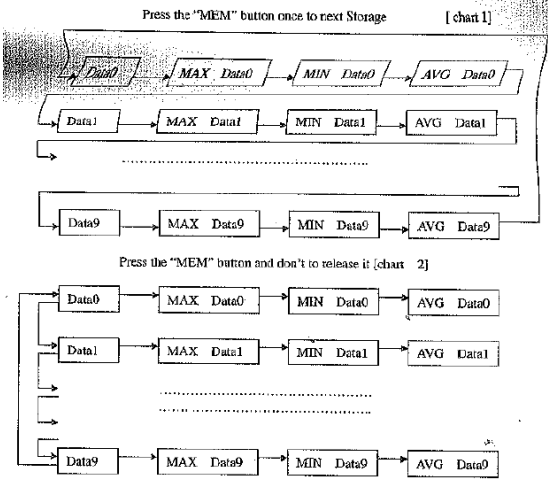
4 FUNCTION DESCRIPTION

In scan mode, the current measurement is displayed on the main display. The main display will hold the last values until the tachometer automatically turns off.

* **Data Storage:** Press the "MEAS" button until the reading displayed on the LCD display. Observe the reading and press the "MEM" Button to record. The maximum, minimum,

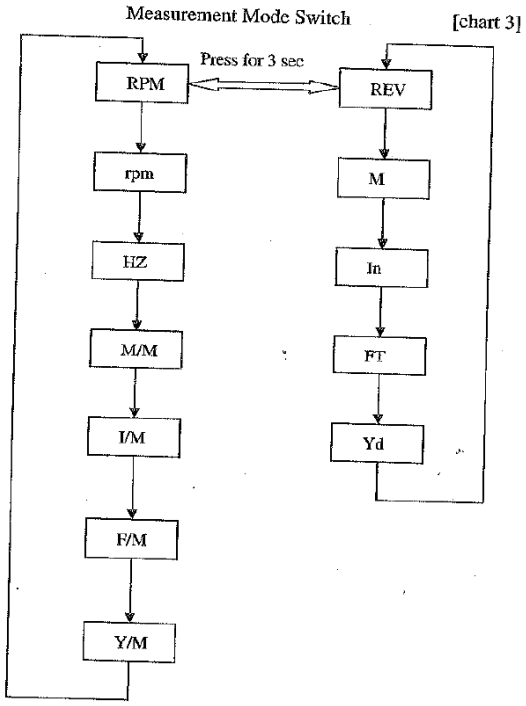
average and data during one shot measurement will be stored into a memory set. Then the Data number will increase by one.

Recall Data: Use the "MEM" button to scroll and view the stored data point. Press the "MEM" button once to next storage, you will view the MAX measurements, MIN measurements, AVG measurements and DATA measurements. Press the "MEM" button and don't to release it to leap to next Data Set. You will view Data0 to Data9, 10 selectable Data measurements.



* **Measurement Mode Switch:** Release the "MEAS" button and press the "MODE" button before the instrument auto power off(released the "MEAS" button this instrument will auto power off in 15 sec).There are two group of measurement. You can press the "MODE"

button once to change from RPM, rpm, HZ,....to the next sequentially. Press the "MODE" button and hold for approx.3 sec to leap to the next group .Then you can press the "MODE" button once to change from REV, M, In....to the next sequentially. Selected the mode of you need, depress the "MEAS" start measures.



* RPM: Non-Contact revolutions per minute measurements.
* rpm: Contact revolutions per minute measurements.
* HZ: Non-Contact /Contact frequency measurements.
* M/M: Contact Meter per minute measurements.
* I/M: Contact Inch per minute measurements.
* F/M : Contact Feet per minute measurements.
* Y/M: Contact Yard per minute measurements.
* REV: Revolution measurements.
* M : Length measurements in the unit of meter. (Using the master 10cm circumference wheel.)
* In : Length measurements in the unit of inch. (Using the master 10cm circumference wheel.)

* FT : Length measurements in the unit of feet. (Using the master 10cm circumference wheel.)
* Yd : Length measurements in the unit of yard. (Using the master 10cm circumference wheel.)

5 MEASURING CONSIDERATION

Reflective mark

Cut and adhesive tape provide into approx 12mm (0.5") squares and apply one square to each rotation shaft.

a. The non-reflective area must always be greater than the reflective area.
b. If the shaft is normally reflective, it must be covered with black tape or black paint before attaching reflective tape
c. Shaft surface must be clean and smooth before applying reflective tape.

* VERY LOW RPM MEASUREMENT

As it is easy to get high resolution and fast sampling time. If measuring the very low RPM values, suggest user to attach more "REFLECTIVE MARKS" averagely. Then divide the reading shown by the number of "REFLECTIVE MARKS" averagely. Then divide the reading shown by the number of "REFLECTIVE MARKS" to get the real RPM

6 WARNINGS

To avoid injuries to animal or human eyes, Please do not point the laser beam in eyes or look directly into beam. If the instrument is not to be used for any extended period, Please remove battery.

NOTE:

* If the battery current is weak ,you will view the "BAT" on the LCD when you Press "MEM" button to measure.
* Be careful not to allow any liquids or moisture to get inside the tachometer.