



POWERING PROGRESS®



Gates Belt Tension Meter

Sonic 508C

GMGA MEASURING

Address: No. 33 Alley 99/120 Dinh Cong Ha, Dinh Cong Ward, Hoang Mai District, 10000 Hanoi City, Vietnam

Telephone: [+84 845 969 336](tel:+84845969336)

Email: info@gmga.vn

Website: <https://gmga.vn/>



What's
New?



SONIC 508C

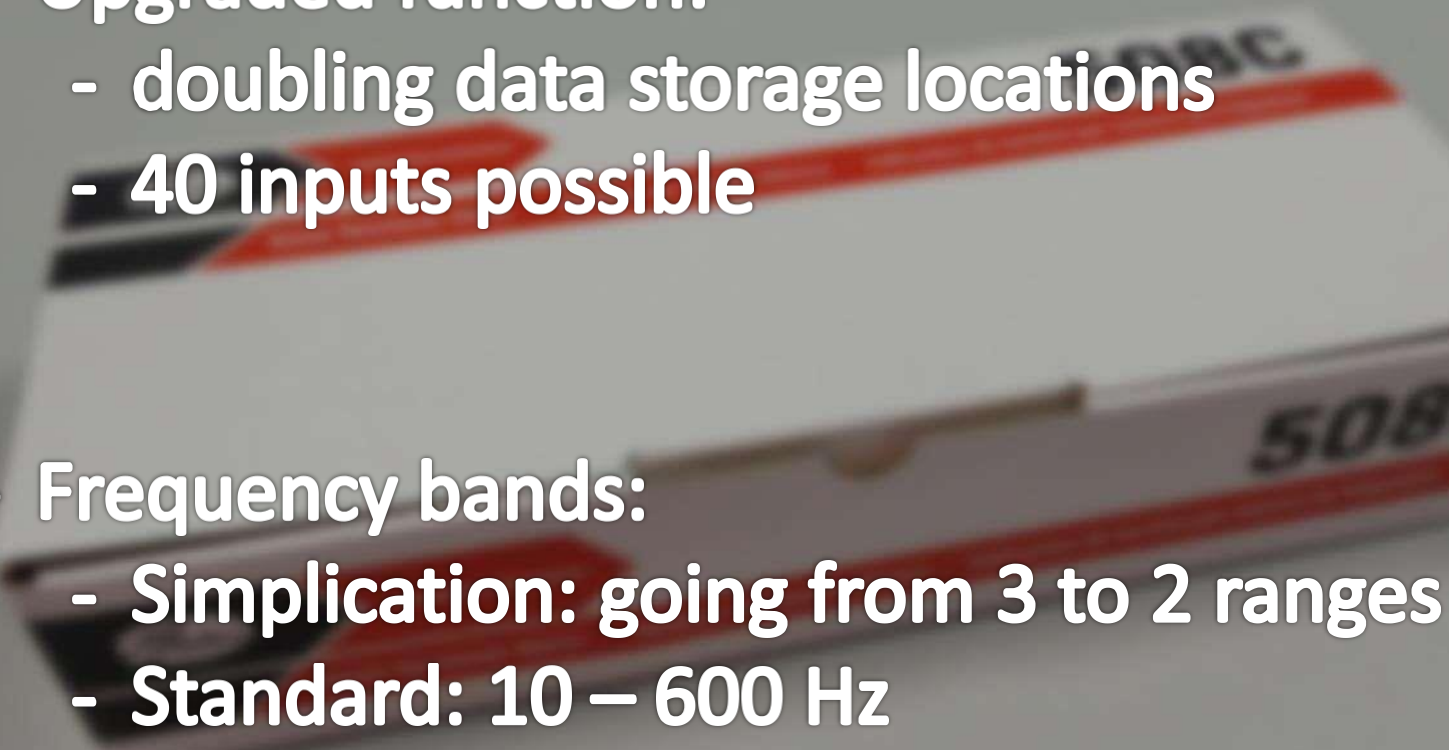
New box design





SONIC 508C

New features

- Upgraded function:
 - doubling data storage locations
 - 40 inputs possible
 - Frequency bands:
 - Simplification: going from 3 to 2 ranges
 - Standard: 10 – 600 Hz
 - High: 500 – 5.000 Hz
- 
- A photograph of the SONIC 508C product box, which is white with red and black accents. The text "SONIC 508C" is visible on the box.

SONIC 507C



SONIC 508C



New key path color

What's
in



SONIC 508C



INSPECTION CERTIFICATE

This product has passed
GUA inspection standard.
Product : Gates 508C
Sonic Tension Meter

Approval	Check

Gates Unitta Asia Company



POWERFUL PROGRESS

Sonic Tension Meter

Medidor de Tensión Sónica

Indicador de tensão por medida de frequência

508C



SONIC 508C

Sonic 508C - package (PN 7420-00508)



+ Sonic Tension meter manual

+ Calibration sheet



SONIC 508C

Sonic 508C - package (PN 7420-00508)

- Suited for multi-ribbed, V- and synchronous belts
- Measuring range: 10 – 5.000 Hz.
- Measuring accuracy: +/- 1%
- LCD screen backlight
- Batteries: 2 x AAA
- Auto gain control
- Double display possible (Newton and/or Hz)
- Auto shutdown after 5 min. of inactivity
- CE approved – RoHS compatible

Sensors



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Standard: flexible arm sensor (PN 7420-00206) - acoustic





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Standard: flexible arm sensor (PN 7420-00206) - acoustic

Sensor head

Sensor connector



- Acoustic sensor
- 170 mm. arm length
- Range: 10 – 5.000 Hz



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Optional: cord sensor (PN 7420-00204) - acoustic





SONIC 508C

Optional: cord sensor (PN 7420-00204) - acoustic



Sensor head

- Acoustic sensor
- 1.000 mm. cord length
- Range: 10 – 5.000 Hz

Sensor connector



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Optional: cord sensor (PN 7420-00212) - inductive





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Optional: cord sensor (PN 7420-00212) - inductive

Sensor head



Sensor connector

- Inductive/magnetic sensor
- 1.000 mm. cord length
- Range: 10 – 5.000 Hz



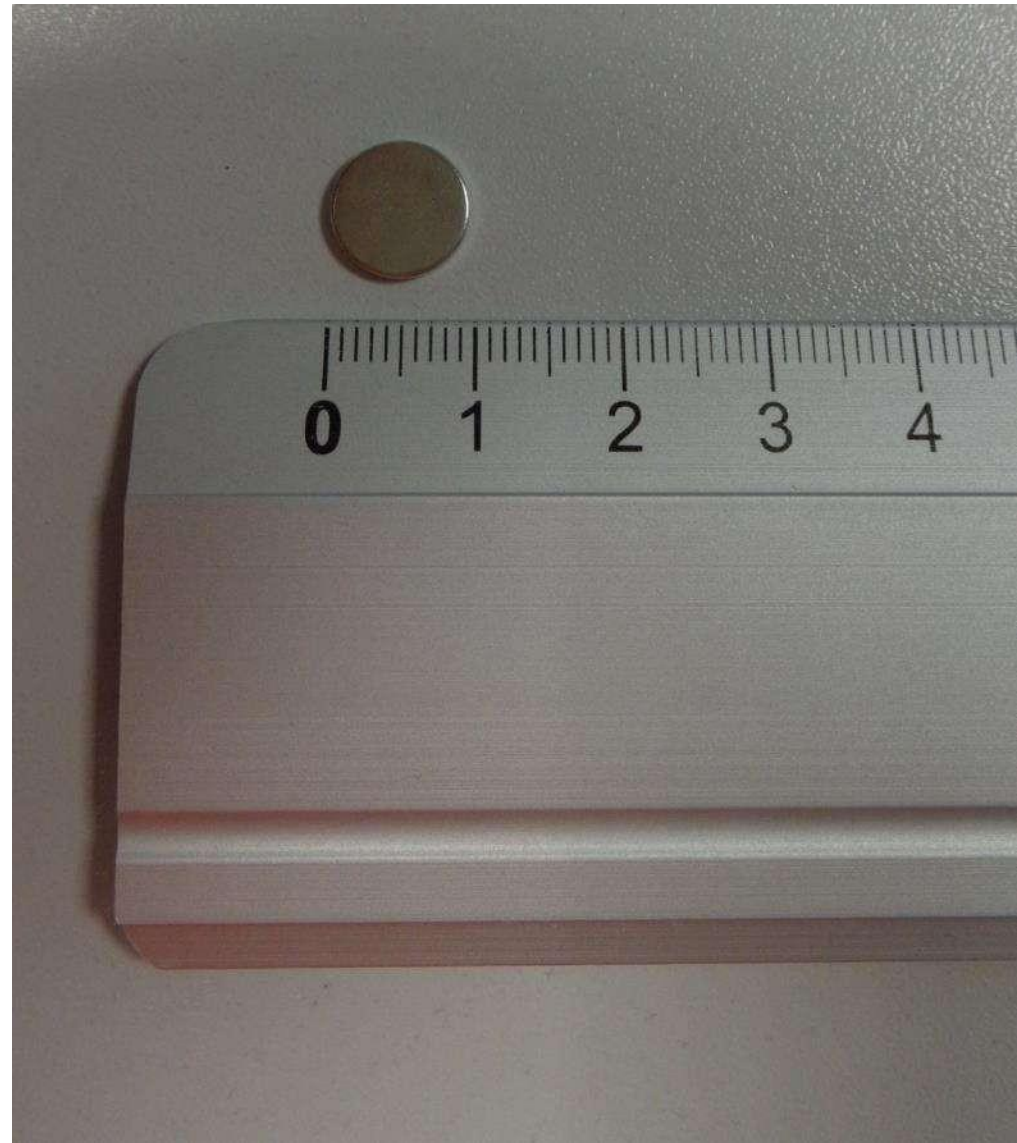
- 5 magnets included



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› Magnets

- Use with inductive sensor
- Neodymium (NdFeB)
- 9.5 mm. diameter
- 1.6 mm. thickness





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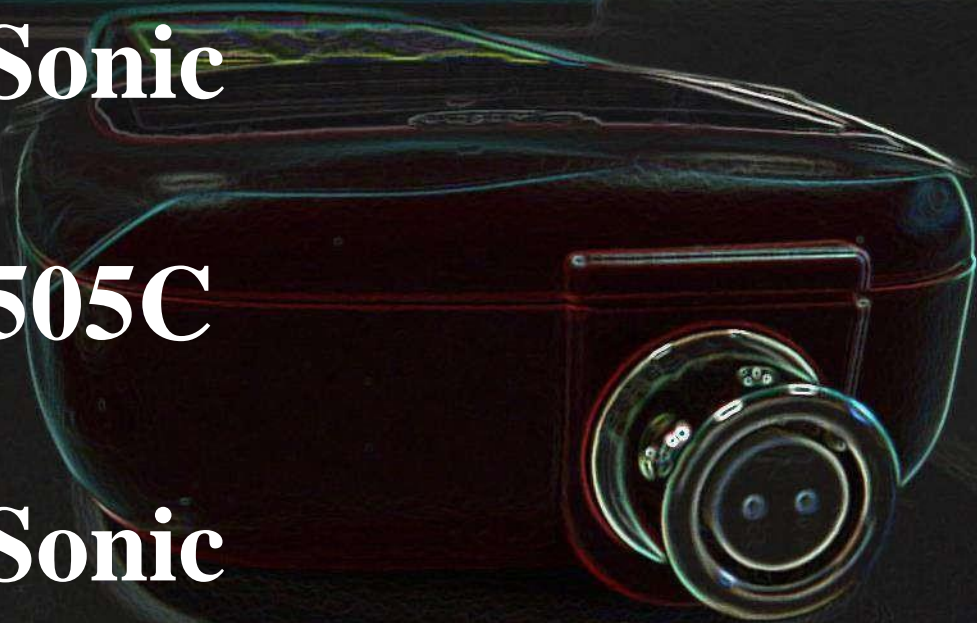
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All sensors are compatible and can be installed on the
Gates Sonic Tension meter models:

Sonic

505C

Sonic



New
package
offering



SONIC 508C

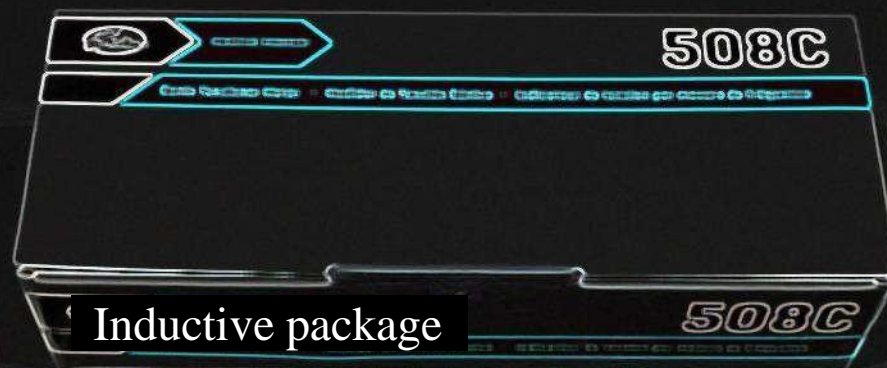
Sonic 508C – standard + inductive package (PN 7420-10508)





SONIC 508C

Sonic 508C – standard + inductive package (PN 7420-10508)



Inductive cord sensor

The image shows a clear plastic blister pack containing an inductive cord sensor. The sensor is a small, rectangular device with a coiled cord and a metal tip. The blister pack is shown from a slightly elevated perspective.

Magnets
(5 pieces)

The image shows five small, cylindrical magnets arranged in a row. They are shown from a slightly elevated perspective.

Operation



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LCD Screen






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LCD Screen



S No06 Batt 
M 002.4 g/m
W 010.0 mm/R
S 2045 mm

The LCD screen shows the following data: S No06, Batt (with a battery level indicator), M 002.4 g/m, W 010.0 mm/R, and S 2045 mm.

Key path



POWER MEASURE
MASS WIDTH SPAN
7 UP 8 9
4 5 6
1 2 3
0 RANGE Hz SELECT
DOWN

The key path includes: POWER, MEASURE, MASS, WIDTH, SPAN, 7, UP, 8, 9, 4, 5, 6, 1, 2, 3, 0 RANGE, Hz, SELECT, and DOWN.



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LCD screen





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LCD screen

Frequency setting

Storage register

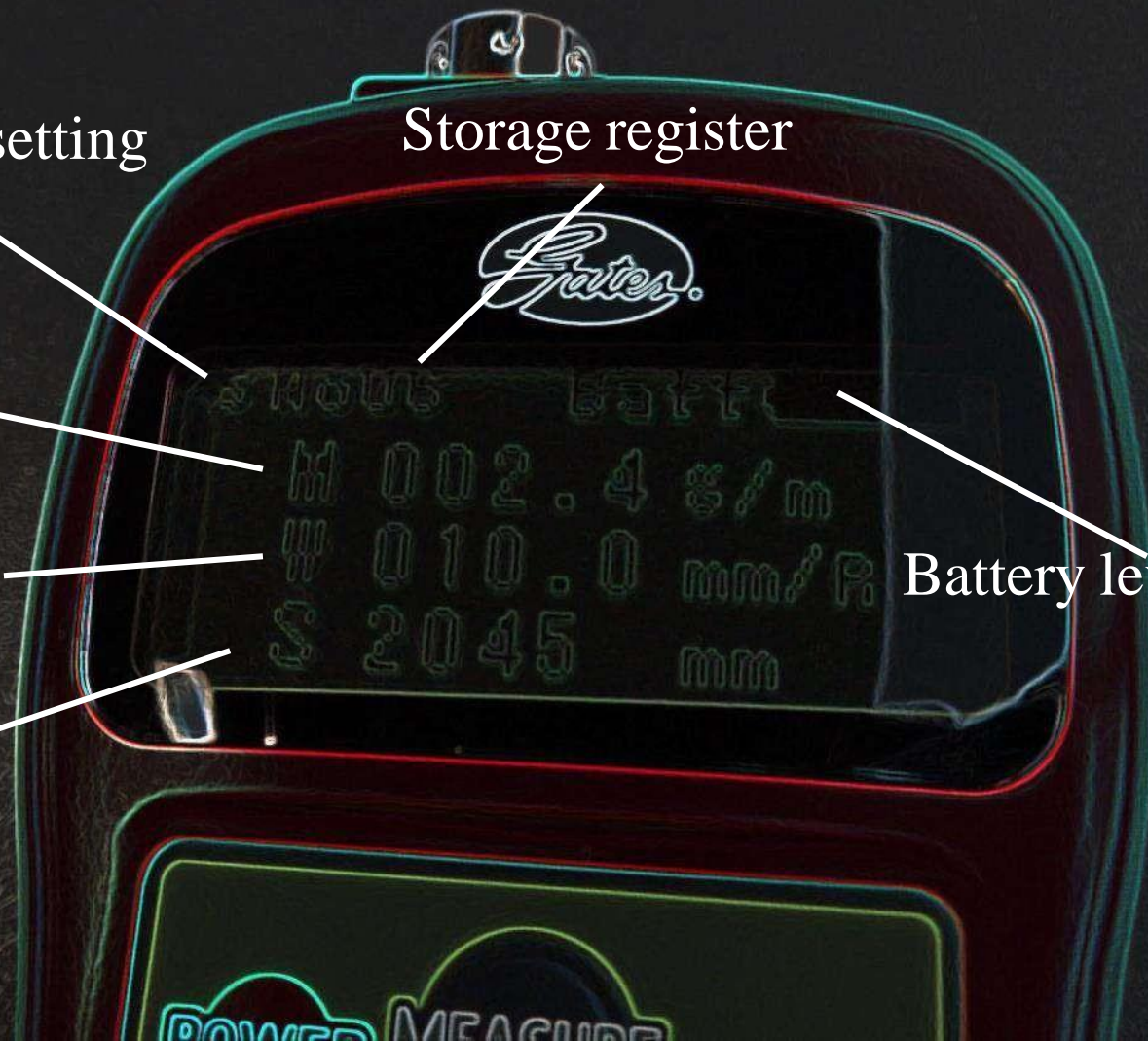
“MASS”

“WIDT

H”

“SPAN”

Battery level meter



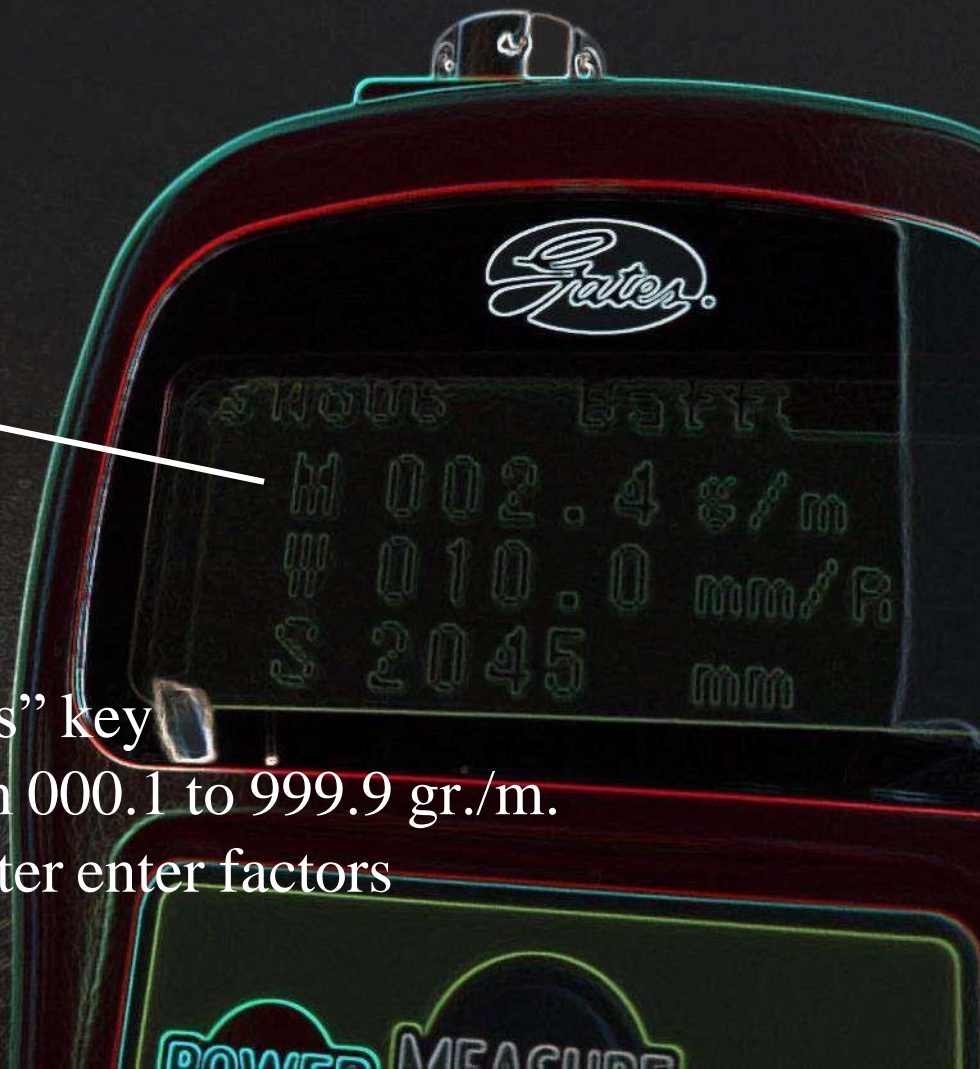


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LCD screen

“MASS”

Use “Mass” key
Input from 000.1 to 999.9 gr./m.
Gram/meter enter factors



Unit weight extract

Synchronous belts

Poly Chain® GT Carbon™

5MGT (5 mm.)	3.0 g/m
8MGT (8 mm)	4.7
14MGT (14 mm)	7.9

Poly Chain® GT2

8MGT (8 mm)	4.7
14MGT (14 mm)	7.9

PowerGrip® GTX

8MX	5.8
14MX	9.7

PowerGrip® GT3

2MGT (2 mm)	1.4
3MGT (3 mm)	2.8
5MGT (5 mm)	4.1
8MGT (8 mm)	5.8
14MGT (14 mm)	9.7

PowerGrip® HTD®

3M (3 mm)	2.4
5M (5 mm)	3.9
8M (8 mm)	6.2
14M (14 mm)	9.9
20M (20 mm)	12.8



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LCD screen

“WIDTH”

Use “Width” key

Input from 000.1 to 999.9

- Synchronous: enter width in millimeter
- V-belt: enter number of belts
- Micro-V, Polyflex JB, PowerBand: enter number of strands





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LCD screen



“SPAN”

Use “Span” key

Input from 0001 to 9999 mm.



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Frequency setting

Use “Range/0” key
Select frequency range using
“UP/8” or “DOWN/2” button

- S: standard: 10 – 600 Hz
- H: high: 500 – 5,000 Hz.





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LCD screen

Storage register



Use "Select" key
Toggle between the
40 input locations





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Key path





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Key path

Power switch





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Key path

Belt unit weight key





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Key path



Belt width key



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Key path



Belt span key



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Key path



Data selection key



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Key path

Frequency range key





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Key path

Up button





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Key path

Down button





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Key path



Frequency/Tension key





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Key path



Measure key



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Key path

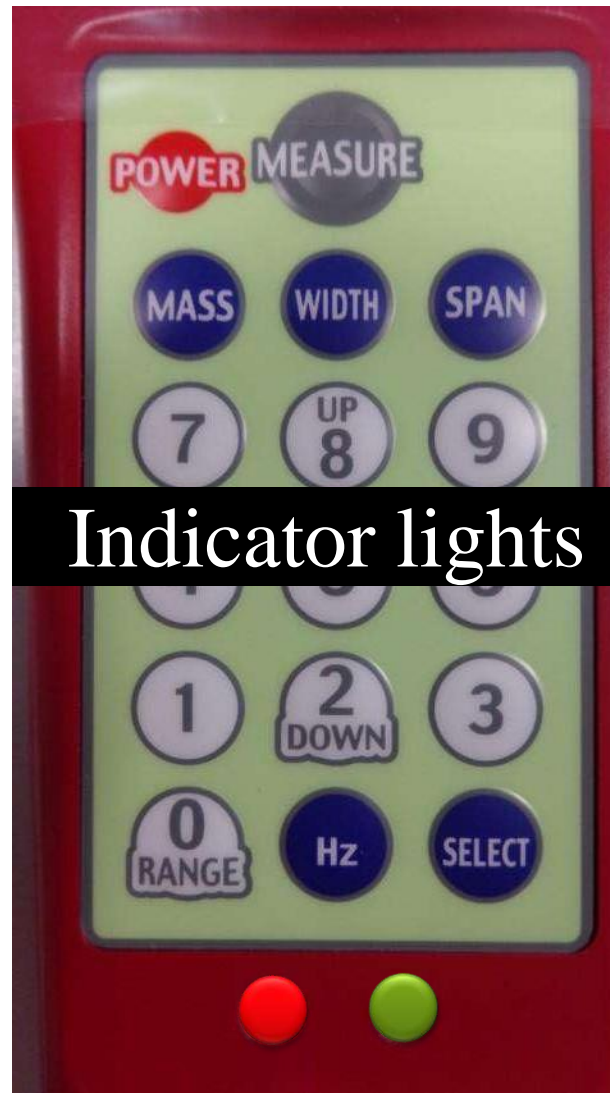


Indicator lights



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Key path



Indicator lights

 Green LED

Flash until a signal is received

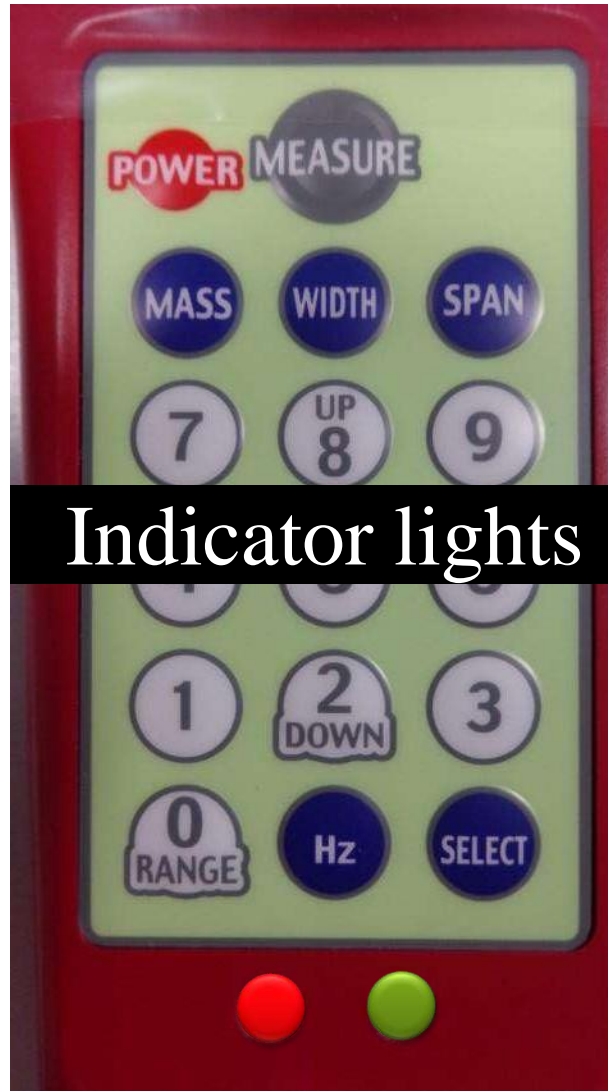


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Key path

 Red LED

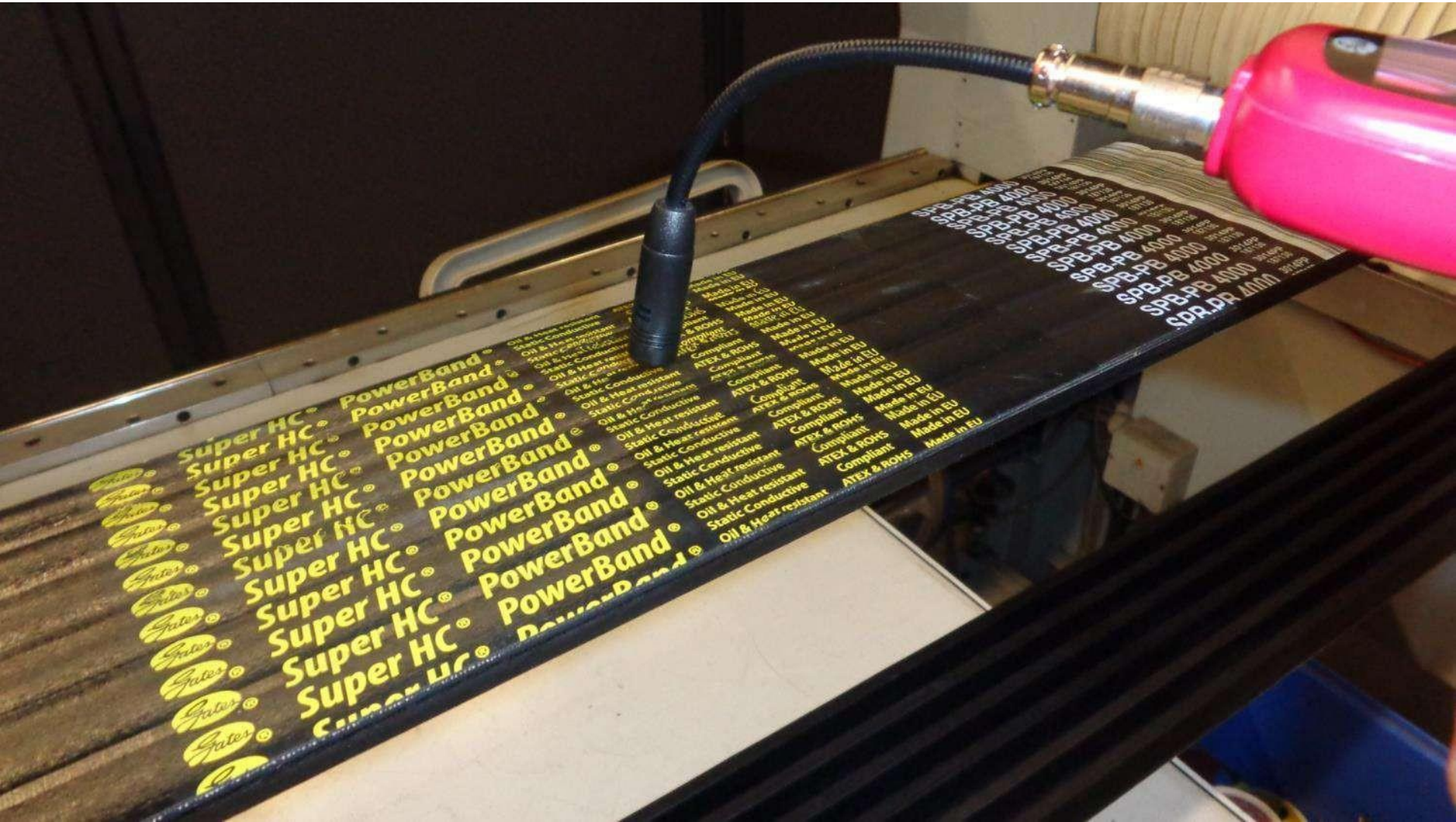
Flash when no
frequencysignal or no
belt tension can be
measured





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Measurement



Tip



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› Background noise:

- Microphone gain level:
 - set automatic when unit is turned on based on background noise

- To reach **MAXIMUM** microphone sensitivity:
 - Turn on meter without microphone attached
 - Wait for meter to power up
 - Connect microphone
 - Measure belt frequency/tension

- Alternative:
 - Use Sonic inductive magnetic sensor + magnet

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SONIC TENSION METER 508C

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