

# SM5 TENSION METER



## Description

The SM5 is a mounting tension tester and tester for all types of belts. Pre-tension control is essential to ensure smooth transmission.

### 1 / Advantages :

A good pretension:

- preserves the life of the belt and bearings,
- improves the quality of meshing and positioning,
- limits the sound level,
- improves efficiency, therefore limits energy consumption.

The parallelism of the pulleys can also be controlled with wide belts by comparative measurement of both sides of the belt.

### 2 / Specificities :



- Compatible with all types of belts,
- Practical and easy to use for assemblers or maintenance service,
- Very comfortable to use: very good reading, display with backlight, battery wear indicator,
- Excellent price / performance ratio.

### 3 / Characteristics of the SM5:

- Built-in sensor (standard)
- Measuring range: from 7 to 450 Hz, Accuracy:  $\pm 5$  Hz,
- Supplied with 9-volt long battery (6LR61),
- CE compliant.

### 4 / Principle of use :

The SM5 measures the natural frequency of vibration of a belt tensioned between two pulleys and allows to calculate the pretension of the assembly  $F_{pt}$ . Just hold the button down for a few seconds to make the controller operational.

The ignition of the controller is checked by a beep and a backlight of the display.

The display shows 0 Hertz and the battery level and the word "Ready", it is ready to use:

- Point the light beam at a distance of 1 to 3 cm from the back of the belt,
- Vibrate the belt: a beep and a backlight warn of the measurement of the vibration frequency of the belt,

- Wait a few seconds and display "Ready" to repeat another measurement. Turn off the device by holding the button down for a few seconds.

#### **5/ An application to make the best use of your SM5 controller :**

To download the Brecoflex SM Meter smartphone application, click on the icon below:

