

# TM13 | TM14

## THICKNESS MONITOR SENSORS



### DESCRIPTION

The TM13 and TM14 devices comprise: quartz oscillator, frequency measuring system and communication interface. It is connected to the input element of a quartz resonator. The measurement results are transmitted via RS232 to the master device: either a PC or TMC13 controller.

Remote control via TMC13 controller or PC.

### FEATURES

#### TM13:

- **Frequency Resolution: 0.1Hz**
- Number of measurements per second: 4 (fixed)
- Maximum frequency of quartz oscillator: 6 MHz
- Stability: 0.5 ppm

#### TM14:

- **Frequency Resolution: 0.01 Hz**
- Number of measurements per second: 0.5, 1, 2, 4, 10 (selectable)
- Maximum frequency of quartz oscillator: 6 MHz
- Stability: 0.5 ppm

### TECHNICAL DATA

Power supply	5V DC	
Current consumption	max 500 mA	
	<b>TM13</b>	<b>TM14</b>
Thickness resolution	0.1 Å	0.01 Å
Rate resolution	0.1 Å/s	0.01 Å/s
Frequency resolution	0.1 Hz	0.01 Hz
Frequency stability	0.5 ppm	0.5 ppm
Number of measurements per second	4	0.5; 1; 2; 4; 10 (selectable)
Communication interface	RS232	
Dimensions	80.0 × 50.0 × 27.0 mm (W×H×D)	
Weight (approx.)	0.1 kg	

### OPTIONS

- Communication interface RS485 (specify at order)

### TM SENSOR CONTROL APPLICATION



PREVAC sp. z o.o. [sales@prevac.eu](mailto:sales@prevac.eu)  
 Raciborska Str. 61 [+48 32 459 21 30](tel:+48324592130)  
 PL44362 Rogów [+48 32 459 20 01](tel:+48324592001)

TM13 TM14