PM GRINDCONTROL

Pressure and temperature measuring system

In order to understand the processes which occur during grinding with ball mills (e.g. chemical reactions, phase changes), it is helpful to **record the most important thermodynamic parameters: pressure and temperature.**

Planetary ball mills are frequently used for the development of new materials by mechanical alloying due to their high energy input. The processes and reactions which take place in the grinding jar during grinding can be monitored and recorded.

The PM GrindControl is available for stainless steel grinding jars of 250 ml and 500 ml. The complete system including accessories is delivered in an aluminum
case.

APPLICATION EXAMPLES

The processes and reactions which take place in the grinding jar during grinding can be monitored and recorded. -

PRODUCT ADVANTAGES

- measurement ranges: gas pressure: 0 - 500 kPa / temperature: -45°C - +110 °C (+85°C)
- no modification of the mill required
- indoor range up to 5 m
- operating time with fully battery 150 h
- evaluation of data with Windows 10

multilingual software

FEATURES

Applications	Pressure and temperature measuring system
Measurement ranges	gas pressure: 0 - 500 kPa temperature: -45°C - +110 °C (+85°C)
Grinding jar sizes	80ml / 125ml / 250 ml / 500 ml

FUNCTIONAL PRINCIPLE

A transmitter which is integrated in the jar lid sends digital signals to a stationary receiver which is connected to a PC. Up to 200 values are measured per second (single transmission mode).
The transmission protocol is a very safe industry standard. Once the data is transmitted to the PC, it can easily be processed with established office programs.

www.retsch.com/grindcontrol