

# Particulate Matter Monitor

**KIMOTO**

## model PM-711

PM-711 is a continuous monitor that measures suspended particulate matter (SPM) in ambient air by a beta ray attenuation method complying with JIS B 7954.



High accuracy monitoring using PTFE filter has a very small effect for gas components or moisture.

Simple operation on a large color LCD touch panel offers a lot of information.

Easy to replacement of filter roll and maintenance by adopting a fold type slide front panel.

Large capacity memory to save measured data for over a year.

USB memory for general-purpose is available to data extraction.

Ethernet interface is available as standard equipment for digital telemetering.

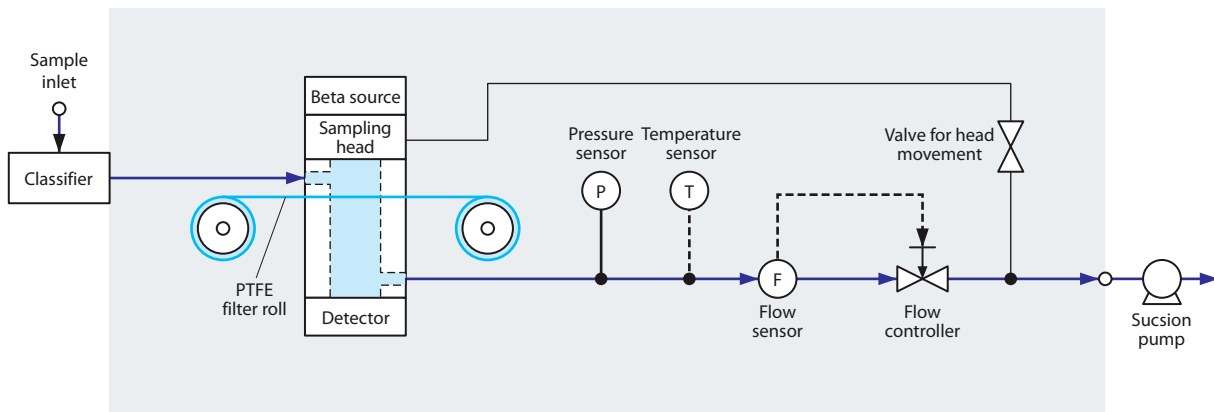
### General Specifications

Measuring object	SPM in the ambient air	Stability of flow rate	±5%/10days of setting flow rate
Measuring method	Beta ray attenuation method	Sampling filter	PTFE filter roll, L=30m (up to 60 days)
Measuring range *	0 - 5 mg/ m <sup>3</sup>	Beta source *	<sup>14</sup> C, less than 10 MBq.
Analog output range *	0 - 0.5/ 1/ 2/ 5 mg/m <sup>3</sup> 4-ranges auto/manual switching (optional) *Starting range is selectable *Fixed range is also available	Detector	Plastic scintillation detector
Repeatability	±2% of equivalent film number	Classifier *	US EPA type TSP, PM <sub>10</sub> , PM <sub>2.5</sub> or PM <sub>1</sub>
Zero drift	±5µg/ m <sup>3</sup> / day	LCD display	Measuring data, Output range, performance and control information, Messages, Alert
Span drift	±3%/day of equivalent film number	Internal data memory	Measuring data (1min, 1h data), Operation history, Messages, Alert
Linearity	±5% of equivalent film number	Digital IN/OUT	Ethernet, USB1.1, RS232C
Instrument reading for standard air sample	±10% of mass concentration	Output for serial recorder (optional) *	Measuring data (1min, 1h data), Operation history, Messages, Alert
Instrument reading for filtered air (blank test)	±5µg/m <sup>3</sup> /day (as mean value)	Analog output for telemeter (optional) *	DC 0 - 1V : Continuous data, 1h mean value Contact signal : Output range, external reset, adjusting, power discontinuity, disconnecting, system failure, etc.
Stability to voltage fluctuation for detection	±3%/100±10V of equivalent film number	Power requirement	AC100V 50/ 60Hz approx. 400VA
Stability to voltage fluctuation for flow control	±5%/100±10V of setting flow rate	Withstand voltage test	AC1000V 50/ 60Hz during 1 min.
Sampling flow rate	16.7 LPM (20°C, 1atm)*	Insulation resistance	more than 5 MEG
*For further information, please contact us.			

### Optional

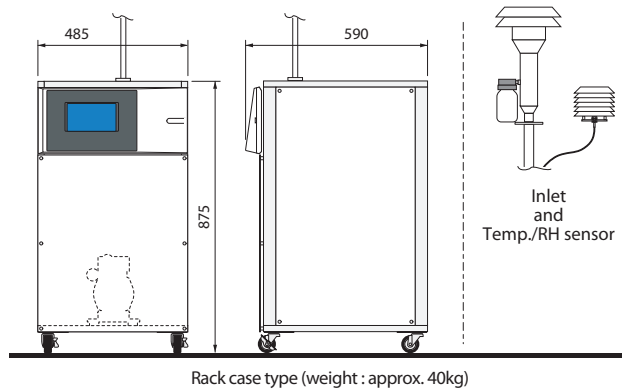
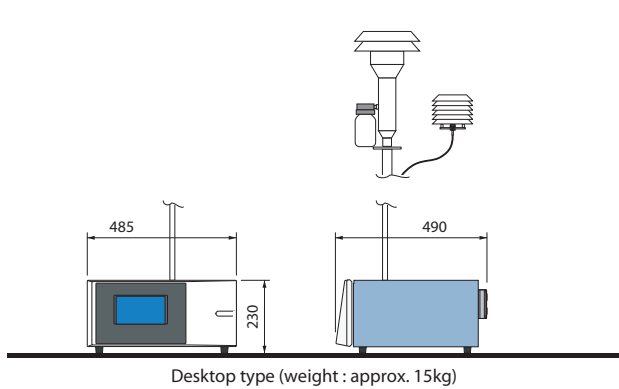
Rack mount	A17: H875mm rollaway rack A22: H1100mm rollaway rack	Analog I/O unit for a telemeter	TU07 : terminal block (Rear connection with rack mount)
Recorder	µRP1800 serial recorder Chart width:180mm	PM <sub>10</sub> classifier	US EPA PM <sub>10</sub> inlet
		PM <sub>2.5</sub> classifier	PM <sub>2.5</sub> very sharp cut cyclone (VSCC)
		PM <sub>1</sub> classifier	PM <sub>1</sub> sharp cut cyclone

## Flow Diagram



## Dimensions

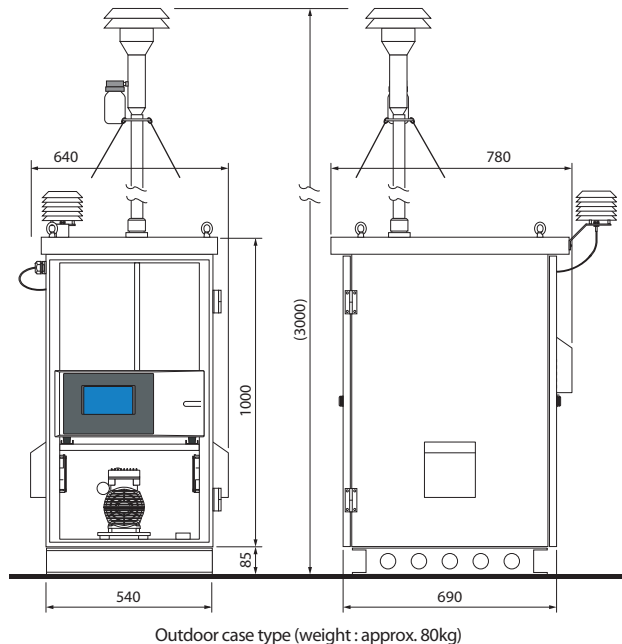
Unit: mm



## Product Code

PM-711- [ ] [ ] [ ] [ ]

T	TSP
C	PM10
F2	PM2.5
F1	PM1
T1	Desktop type
A1	Rack case type
S1	Outdoor case type
R	Serial recorder
0	No use
T	Analog telemeter communication unit
0	No use



**CAUTION**

\*) Operation manual should be read before measuring.

\*) To avoid fire, break down and electric shock, do not use this analyzer at the place where beside water, high moisture, dust or oily smoke.

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