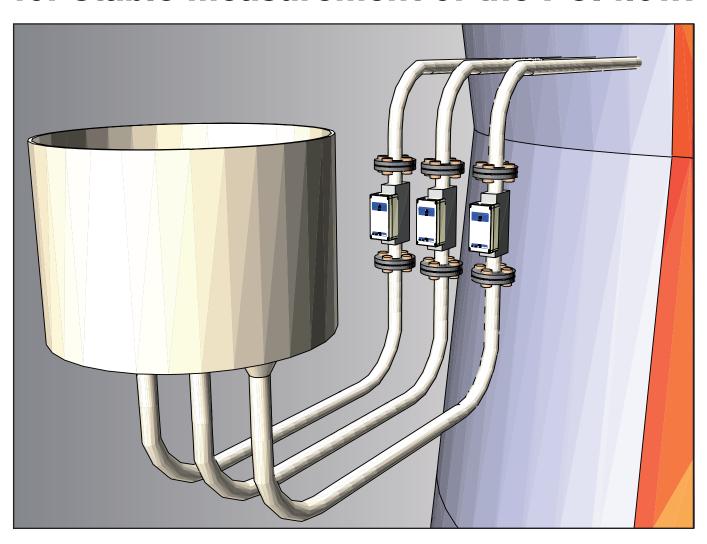


MICROWAVE TYPE PCI FLOW METER

MWS-MF-1 PAT.PEND.

MICRO-FLOW

The use of microwaves allows for stable measurement of the PCI flow!

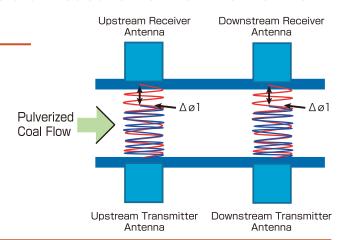


WADECO CO.,LTD.

The use of microwaves allows for stable measurement of the PCI flow!

General

The MWS-MF-1 (Microflow) is installed on the coal feeding pipe of the blast furnace tuyere and measures the density and speed of the fine coal in order to calculate and output the flow rate.



Special Features

1. High accuracy, high reliability

- There is a very good linearity between the phase delay and density. Due to this, low density to high density will be measured with high accuracy.
- The speed is calculated by the intercorrelated time difference in density between the upstream side and downstream side.
- The sensor's inner pipe is made of microwave penetrable ceramic to prevent abrasion and there is no protrusion in it.

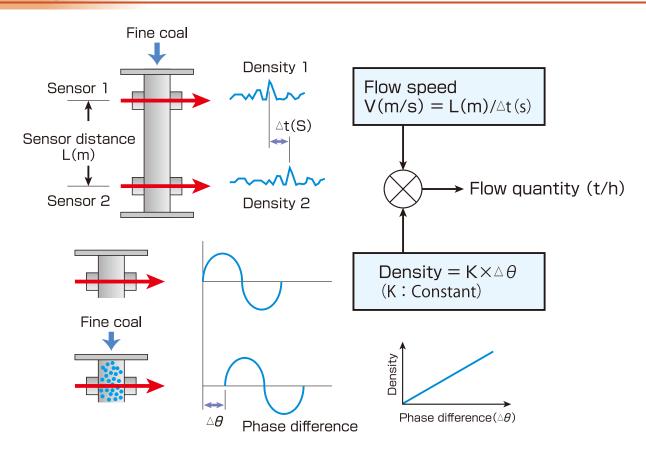
2. Continuous measurement can be easily performed.

 The density and the speed of the fine coal flowing in the pipe can be continuously measured because the sensor is installed in the pipeline.

3. Convenient functions are built in

- The system can be set up, the status of operation can be monitored and parameters can be set with a standard laptop.
- The monitoring of the density, speed and quantity of flow are available and can be output by 4-20mA analog output.
- The flow calibration curve can be set and the zero reference point can be adjusted remotely.

Principle

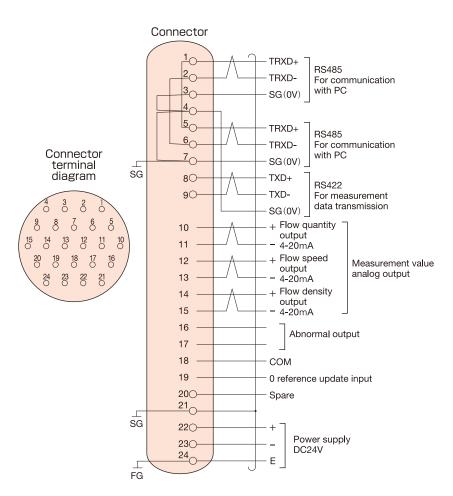


Specifications

Туре		MWS-MF-1
Power Supply		DC24V±5%
Measurement Method		Microwave
Frequency		24GHz
Measurement	Density	0~100kg/m ³
	Speed	0~20m/s
	Flow	0~3t/h
External Interface	RS-485 Output	For communication with PC
	Analog Output	Density, speed, flow 4-20mA/FS
	Abnormal Output	1a Semi-conductor relay contact DC30V, 0.1A Normal state : Closed Abnormal state : Open
	0 reference update input	Dry contact input
Power Consumption		Approx.10W

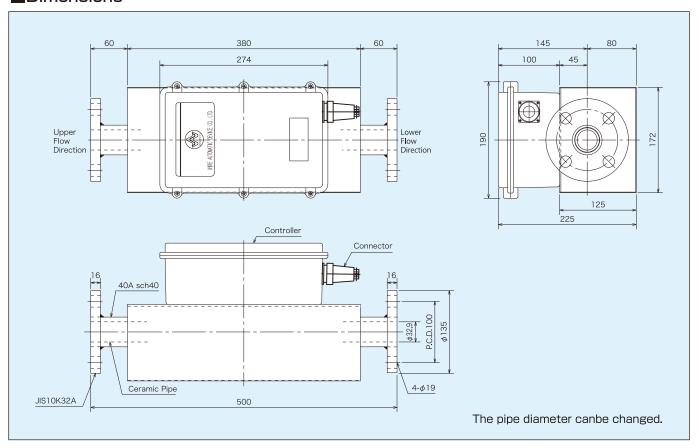
Noise Tolerance		±1.5kV
Ambient Temperature		-10°C~45°C
Material Temperature		80°C(Max)
Fine coal specifications	Particle Size	200mesh pass 70~80%
	Flow Quantity	20~80t/h (0.5~2.0t/h/ pipe)
	Fine coal density	0.5~0.6t/m3
	Solid/gas ratio	9~10kg/kg
Enclosure Rating		IP65 Equivalent
Internal Pipe Pressure		1.18MPa
Flange		JIS10K32A
Construction	Internal	Ceramic pipe
	External	SUS304 Pipe
Weight		Approx. 20kg

Connector

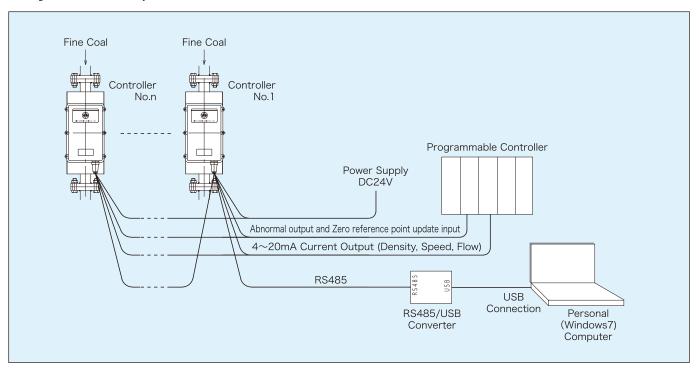




■Dimensions



System Example



These specifications may be changed without notice.



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