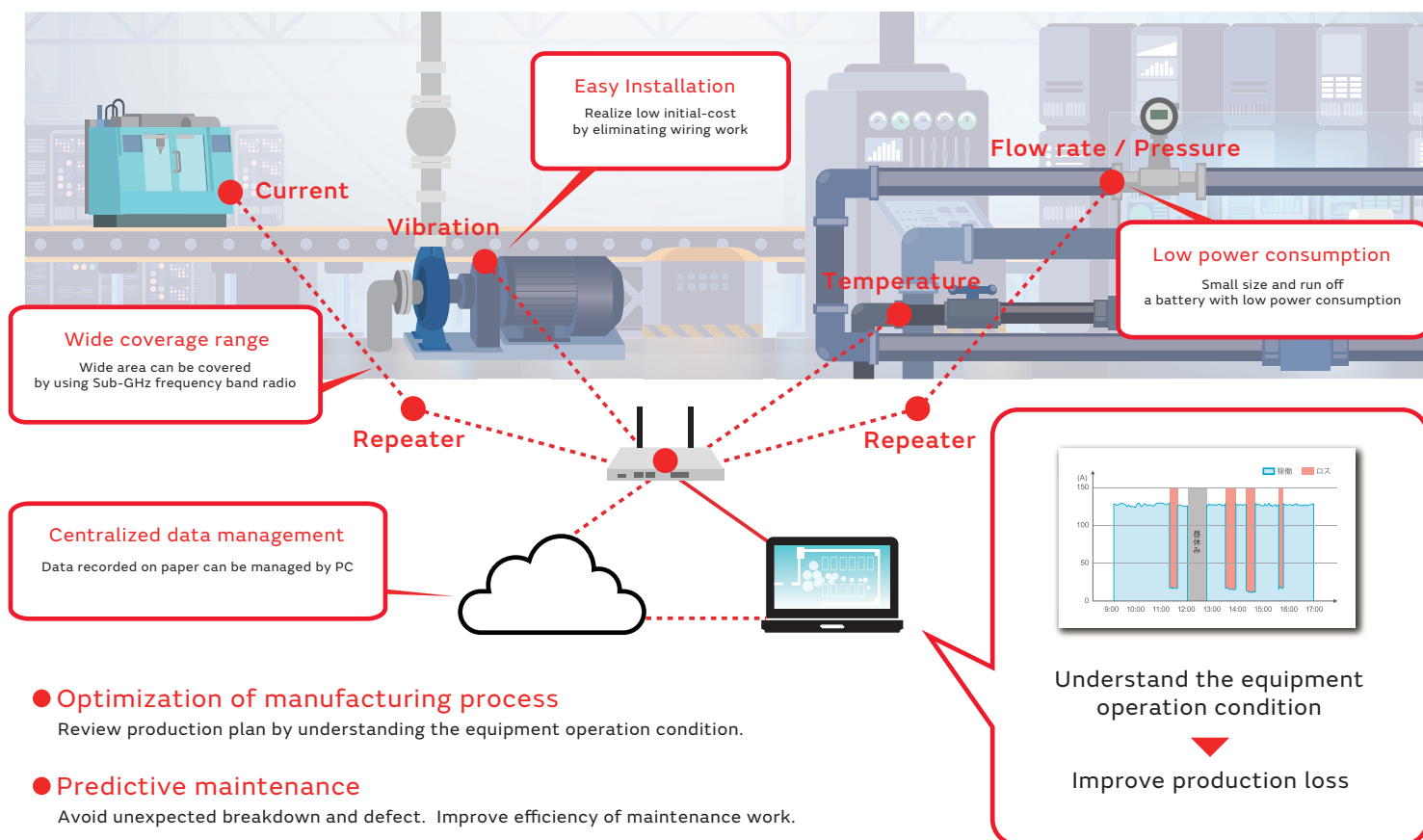


Monitoring System for Factory by Wireless and Sensor

Wireless Sensing System which enables energy saving and predictive maintenance without the pain of complex wiring work.

Mechanism











Specifications

Gateway	Wireless communication Interface	Wired communication Interface	Dimension
Multi-protocol gateway	WLAN / Sub-GHz	Gigabit Ethernet / USB OTG	170×109×26mm
Sensor node	Radio frequency	Product characteristics*	Dimension
Vibration sensor	Sub-GHz	Freq: to 10kHz±3dB	38×24×38mm
Current sensor	Sub-GHz	80A / 200A / 500A, Typ.±1%	45×90×27mm
4-20mA/pulse	Sub-GHz	4-20mA, pulse count, resolution 0.02mV	45×90×27mm
0-5V/pulse	Sub-GHz	0-5V, pulse count, resolution 5mV	45×90×27mm
Thermocouple	Sub-GHz	0~+200 °C, Typ.±1 °C	65×52×27mm
Temperature/Humidity	Sub-GHz	-10~+60 °C, 10~90%RH, Typ.0.5 °C, 0~+200 °C, ±5%RH	45×90×27mm

*Not a guaranteed value

Wireless Sensing Solution

Product lineup

Wireless Sensor Unit			Wireless Sensor Unit		
	Name	Temperature Humidity Sensor		Name	Vibration Sensor Unit (Acceleration)
	Power	AAA Lithium Ion Battery (2pcs) AC Adapter or USB cable		Power	Lithium thionyl chloride battery 1pc
	Measurement	Temperature(-10~60°C) Humidity(10~90%RH)		Measurement	Peak Acceleration (top 5), Frequency of Peak Acceleration (top 5), Acceleration RMS, Kurtosis, Temperature
	Accuracy	Temp.±0.5°C·Hum.±5%RH		Accuracy	~10kHz ±3dB
	Battery Life	10 years (5-min report interval)		Battery Life	5 years (1-hour report interval and 25°C)
	Water Proof	No		Water Proof	IP65
	Size	L: 90mm W: 45mm H: 27mm		Size	L: 38mm W: 24mm H: 38mm
	Name	CT Sensor Unit		Name	Vibration Sensor Unit (Velocity)
	Power	AAA Lithium Ion Battery (2pcs) AC Adapter or USB cable		Power	Lithium thionyl chloride battery 1pc
	Measurement	0.1~80A or 0.1~200A or 1~500A		Measurement	Peak Acceleration (top 2), Frequency of Peak Acceleration (top 2), Peak Velocity (top 3), Frequency of Peak Velocity (top 3), Acceleration RMS, Velocity RMS, Kurtosis, Temperature
	Accuracy	±5%		Accuracy	~10kHz ±3dB
	Battery Life	6.5 years (5-min report interval)		Battery Life	5 years (1-hour report interval and 25°C)
	Water Proof	No		Water Proof	IP65
	Size	Unit L: 90mm W: 45mm H: 27mm Cable 150mm, 1500mm, 3000mm		Size	L: 38mm W: 24mm H: 38mm
	Name	4-20mA and Pulse Signal Unit		Name	Thermocouple
	Power	AAA Lithium Ion Battery (2pcs) AC Adapter or USB cable		Power	CR2 Battery
	Measurement	Measurement Range: 4~20mA, pulse count 0~65535 times		Measurement	-20°C~200°C Resolution 0.1°C
	Accuracy	±1.0% F.S		Accuracy	±0.8°C@60°C
	Battery Life	10 years (10-min report interval)		Battery Life	6.5 years (5-min report interval)
	Water Proof	No		Water Proof	No
	Size	Unit L: 90mm W :45mm H: 27mm Cable 2m		Size	L : 65mm, W : 52mm, H : 27mm
	Name	Relay Unit (Repeater)	Gateway		
	Power	AC Adapter or USB cable		Name	Gateway
	Measurement	-		Power	USB cable
	Accuracy	-		I/F	Ethernet, Wireless LAN
	Battery Life	Use AC Adapter or USB cable		I/F Protocol	UDP/IP
	Water Proof	No		Memory	Micro SD
	Size	L: 90mm W: 45mm H: 27mm		Size	L:170mm, W:109mm, H:27mm

Product lineup is for March 2020. It will be changed without notice.

★Products include development products. Please contact Murata for product detail.