

## XS110A XS530

# Wireless Pressure Sensor



XS110A

XS530

### Replacing operator rounds and quantifying

The XS530 Pressure Measurement Module operates as a battery-powered wireless pressure sensor when combined with the XS110A Wireless Communication Module. This sensor measures the gauge pressure of gases and liquids and wirelessly transmits the measurement data to the host systems. The battery can be replaced by removing only the wireless communication module without dismounting the measurement module from the piping.

#### Process connections



Female screw



Male screw

Measurement data	Gauge pressure
	Process temperature limits: -40 to 120°C (-40 to 248°F) Measured fluid: gases, liquids
Measurement range	-0.1 to 5 MPa or -0.1 to 35 MPa
Accuracy	Pressure: ±0.25% of Full scale
Update time	1 minute to 3 days
Battery life	10 years (update time: 1 hour*1), battery replaceable
Dimensions and weight*2	188 × ø68 mm, 1 kg or less
Explosionproof	ATEX, IECEx, FM, CSA

\*1 Ambient temperature: 23 ± 2°C (73.4 ± 3.6°F)

\*2 Dimensions and weight depend on the specifications selected.

## EXPECTED APPLICATIONS

### REPLACING PRESSURE GAUGES (PGS)

#### Challenge

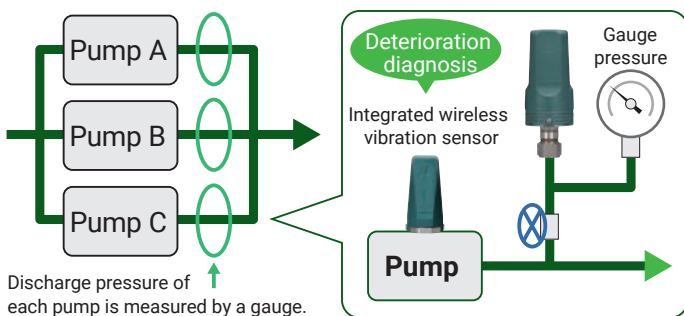
Conventionally, the discharge pressure gauge of each pump is visually inspected each time the pump is switched, for example, from Pump A to Pump B, or inspected during operator rounds. Customers want to be able to inspect such pump pressure gauges remotely.

#### Solution

Replacing PGs with wireless pressure sensors and making the pump discharge pressure data available online. Implementing pump diagnoses combined with a wireless vibration sensor.

#### Benefit

By making the pressure and vibration data available online and monitoring the state of deterioration of pumps, customers can identify which pump needs maintenance. Maintenance can then be conducted efficiently depending on the pump conditions.



### DETECTING LEAKAGE AND CLOGGING OF DUST COLLECTORS AND THEIR PIPING

#### Challenge

Pressure gauges (PGs) are visually inspected during operator rounds, because leakage or clogging in dust collectors will cause equipment failures or reduced operation efficiency. Although the measurement points are widely distributed throughout a plant, customers want to increase the frequency of operator rounds or the number of measurement points.

#### Solution

Replacing the existing pressure gauges (PGs) with wireless pressure sensors, or adding sensors.

#### Benefit

Sensors can be monitored continually by making the sensor data available online. Adequate inspection frequency can be secured for the points of required. Thus, equipment failures can be avoided and operation efficiency can be improved.

