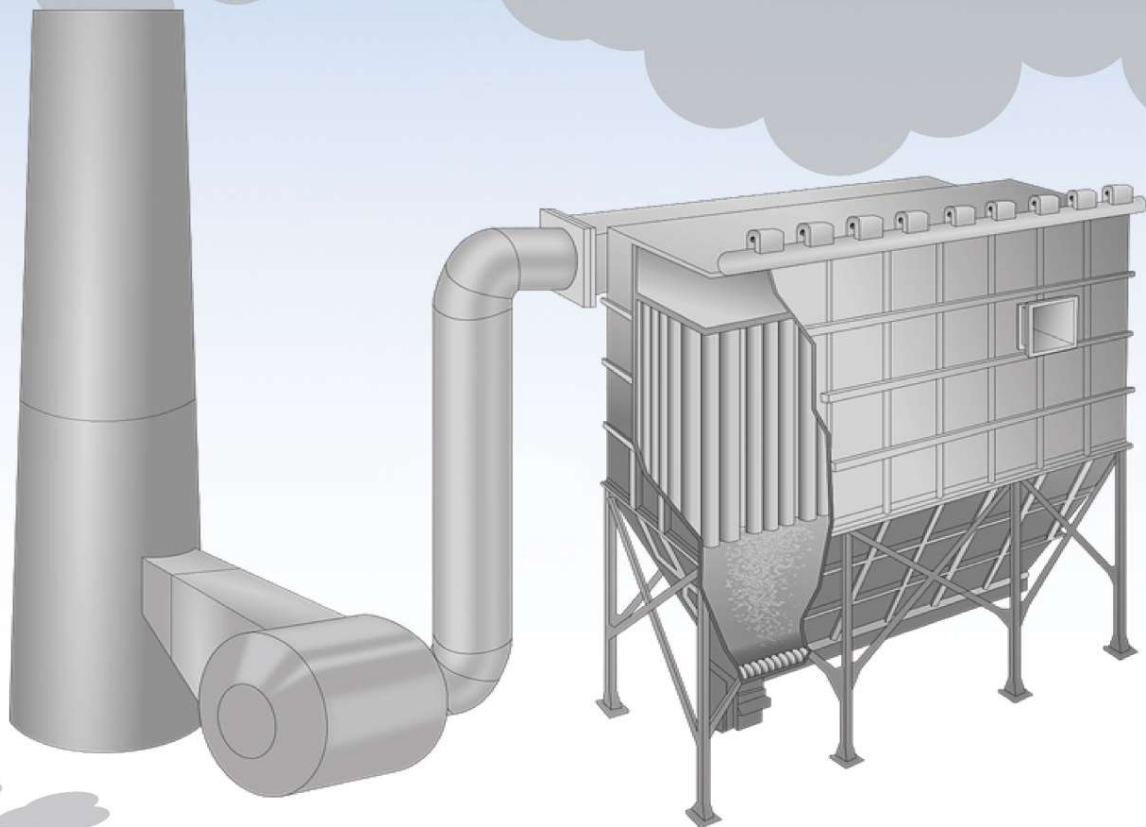


Proposal to secondary battery manufacturers

Prevention for loss of raw materials leaked from Dust Collector



A certain manufacturer of secondary batteries uses nearly 40 dust collectors at all factories, and approx. 27 million yen (USD 250,000) of material loss is estimated every month due to deterioration of filters.

Operational problem

In a certain manufacturer's plant, more than 9 tons of raw materials were not collected and leaked every month from the dust collectors of all plants due to inappropriate installation and deterioration after replacement of the bug filter. For the company, the loss is estimated approx. **27 million yen (USD250,000) per month**, which results in **air pollution problem**. It is clearly estimated how much sales you need to make this profit in return for this loss! Thus, it was required to install a dust monitor that continuously monitors the amount of leakage.

What does the customer needs?

- ✓ Continuously monitored
- ✓ Low cost
- ✓ Easy adjustment and maintenance



Solved by Dust Monitor!

Dust monitor continuously monitors the dust leak with a high sensitivity of 0.1 mg/m^3 *1. It is easy adjustment by only the range and integration time settings. Furthermore, it is more affordable and easier to maintain than any optical sensors.

*1: The range can be set in 9 steps in the range of 0.1 mg/m^3 to 1000 mg/m^3 .

Dust Monitor installation



POINT

Dust Monitor applies a relative concentration measurement. It is recommended for continuous dust measurement because it has a high correlation (correlation factor 0.969) with the isokinetic measurement (manual analysis) defined by JISB7996 (established Jan. 22, 2018). The collection of the measurement value to the actual value measured by isokinetic sensor causes dust monitoring in real time instead of isokinetic measurement on a regular basis*2.

*2: We also offer a dust monitor calibration service.

Application

Dust monitor outputs the analog signal. When higher dust concentration is measured and output, a dust collector starts to activate, which results in energy saving effect.

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