Supervising and anticipating the maintenance of ventilation systems with ease.

1 global solution

adeunis IoT sensors: Smart Delta P

Sensor with dedicated firmware embedding mathematical aggregates

Artificial Intelligence & Edge Computing

Allows processing of data shared between the sensor and the platform

Carl Software's dedicated IoT maintenance platform

Processes the data sent back through AI and creates the associated numerical models

Benefits

- Organization and qualification in advance of the maintenance to be carried out.
- Decrease in intervention costs
- Increase in the life span of the observed equipment

Highlights

- Adapts to any existing ventilation system (VMC,CTA)
- No configuration on the sensor to perform thanks to the embedded AI
- Identifies normal operating modes, automatically deduces drifts and alert thresholds

SMART DELTA P

Sensor for monitoring the operation of a Centralised Mechanical Ventilation (CMV) or Air Handling Unit (AHU).

MEASURE

Aggregating differential pressure data
Aggregate data on current measurement

ALERT

In case of anomalies*

In the event of filter clogging*

ACT

Controlling digital outputs

*Function only available when paired with Carl Source, from Carl Software.

AGGREGATE OF DATA COLLECTED

The configuration allows you to choose the list of desired aggregates according to your needs:

- Average
- Variance
- Standard deviation
- Skewness

- Kurtosis
- Median
- Gradient (last-first)
- Number of peaks

- Number of passages per
- average
- Min and Max

TECHNICAL SPECIFICATIONS

Smart Delta P

- Periodic or event mode
- 2 digital inputs/outputs
- Fully configurable locally or at a distance
- Operating temperature range: -20°C /+70°C
- Delta pressure: -500/+500Pa
- Accuracy: +/- 25Pa
- Casing: IP68
- Dimensions: 200 x 63.5 x 34 mm
- Replaceable battery
- Lifetime of several years

- Integrated fastening system: DIN rail, tube, wall, collar
- Zone: LoRaWAN® EU863-870
- Standards: Directive 2014/53/UE (RED)

Current transducer

- Operating temperature: -25°C / +60°C
- Fire resistance: UL94-V0
- Precision: +/- 2%
- Cable 10 mm
- About 70 cm of cable