

Differential Air Pressure Switch

AI-DPS-32

Product Overview

AI-DPS-32 is an adjustable differential pressure switch capable of detecting minuscule changes in pressure due to the size and proven design. The switch set point or switching point can be field adjustable without the need of a manometer by simply using the adjustment knob and the built-in calibrated visual scale. This switch is equipped with a clear cover that not only protects the adjustment knob to be moved involuntarily but also provides class IP54 protection.

Key Highlights

- High accuracy differential pressure sensing
- Adjustable differential pressure setpoint
- Suitable for air and non-combustible gases
- Compact and durable design
- Easy installation and maintenance
- Reliable switching mechanism
- Max Operating Pressure 10 Kpa



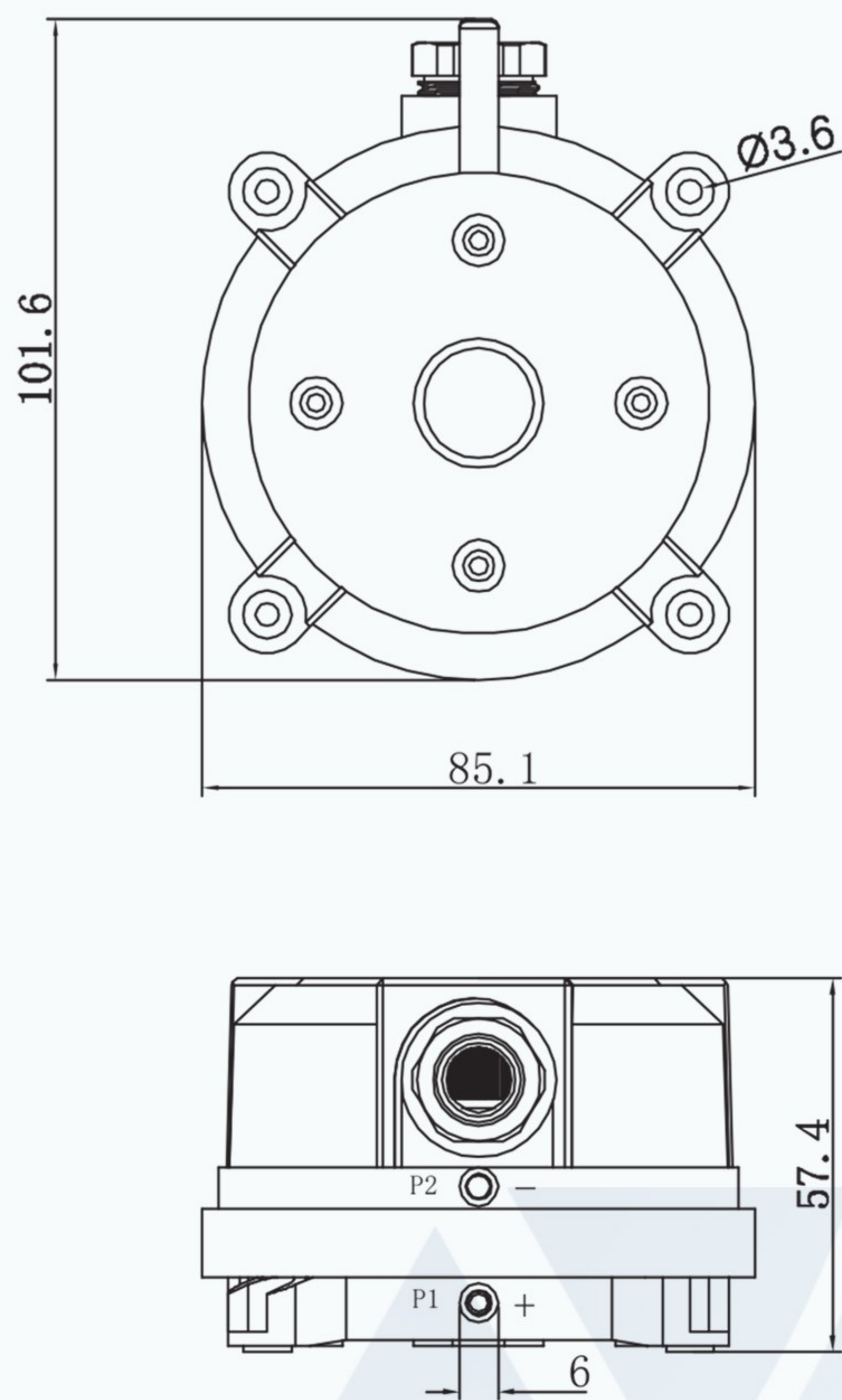
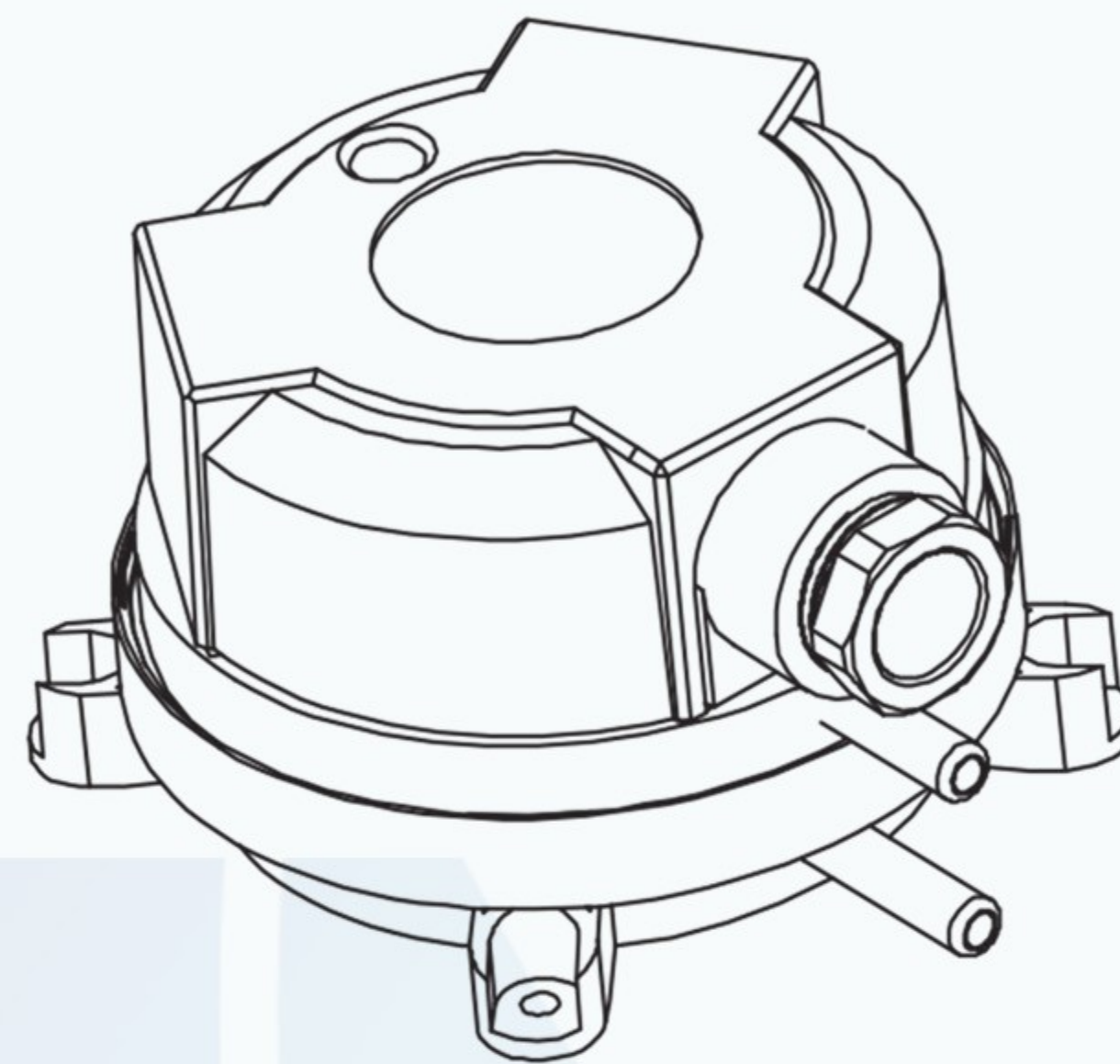
Working Pressure Range :

Model	Pressure Range	Differential	Tolerances
AI-DPS-32-02	20–200 Pa	10 Pa	$\leq \pm 15\%$
AI-DPS-32-03	30–300 Pa	10 Pa	$\leq \pm 15\%$
AI-DPS-32-04	40–400 Pa	20 Pa	$\leq \pm 15\%$
AI-DPS-32-05	50–500 Pa	20 Pa	$\leq \pm 15\%$
AI-DPS-32-10	200–1000 Pa	100 Pa	$\leq \pm 15\%$
AI-DPS-32-25	500–2500 Pa	150 Pa	$\leq \pm 15\%$
AI-DPS-32-11	100–1000 Pa	50 Pa	$\leq \pm 15\%$
AI-DPS-32-50	1000–5000 Pa	250 Pa	$\leq \pm 15\%$

Technical Specifications

Model	AI-DPS-32
Measuring Parameters	Differential Pressure
Ranges	20-200 Pa, 30–300 Pa, 50–500 Pa
Optional Ranges	40–400 Pa, 100–1000 Pa, 200–1000 Pa, 500–2500 Pa, 1000–5000 Pa, Contact Store
Differential Pressure	Adjustable, high sensitivity (detects minuscule pressure changes)
Media	Air, non-combustible and non-aggressive gas
Max. operating pressure	10 kPa
Mounting Position	Diaphragm in any vertical plane
Degree of Protection	IP54 (with cover), IP00 (without cover)
Operating Temperature	-40°C to +85°C
Contact Arrangement	SPDT
Terminal	6.3 mm × 0.8 blade or screw terminal
Contact rating	AC/DC 24 V, t 0.01 A AC 250 V, max. 5 A res.
Connection	Ø 6.4 mm for tube connection
Weight	Approx 190g
Supply Scope	1 unit of Differential Pressure Switch, Transparent Protective Cover (pre-installed), Mounting Screws/Accessories, Calibration Certificate, Instruction Manual, Silicone Tube, and Wall Mounting Tab.
Warranty	18-Month Warranty Against Manufacturing Defects
Manufacturer	ACE Instruments

CAD Diagram



(All Dimensions in mm)

What's in the Box

- AI-DPS-32 Differential Pressure Switch
- Transparent Protective Cover (pre-installed)
- Mounting Screws/Accessories
- User Instruction Manual

Certifications & Compliance

- Designed for industrial & HVAC applications (air / non-corrosive gases)
- Typical industry certifications for this category include:



CE Compliance
(European safety standards)



RoHS Compliance
(environmental safety)



ISO 9001 Manufacturing
Standards

Warranty & Support

- ✓ 1 Year Manufacturer Warranty
- ✓ Factory calibration support available
- ✓ Designed for long operational life and stable performance
- ✓ Online & Offline Instalation support available

Applications



HVAC systems
(air flow & pressure monitoring)



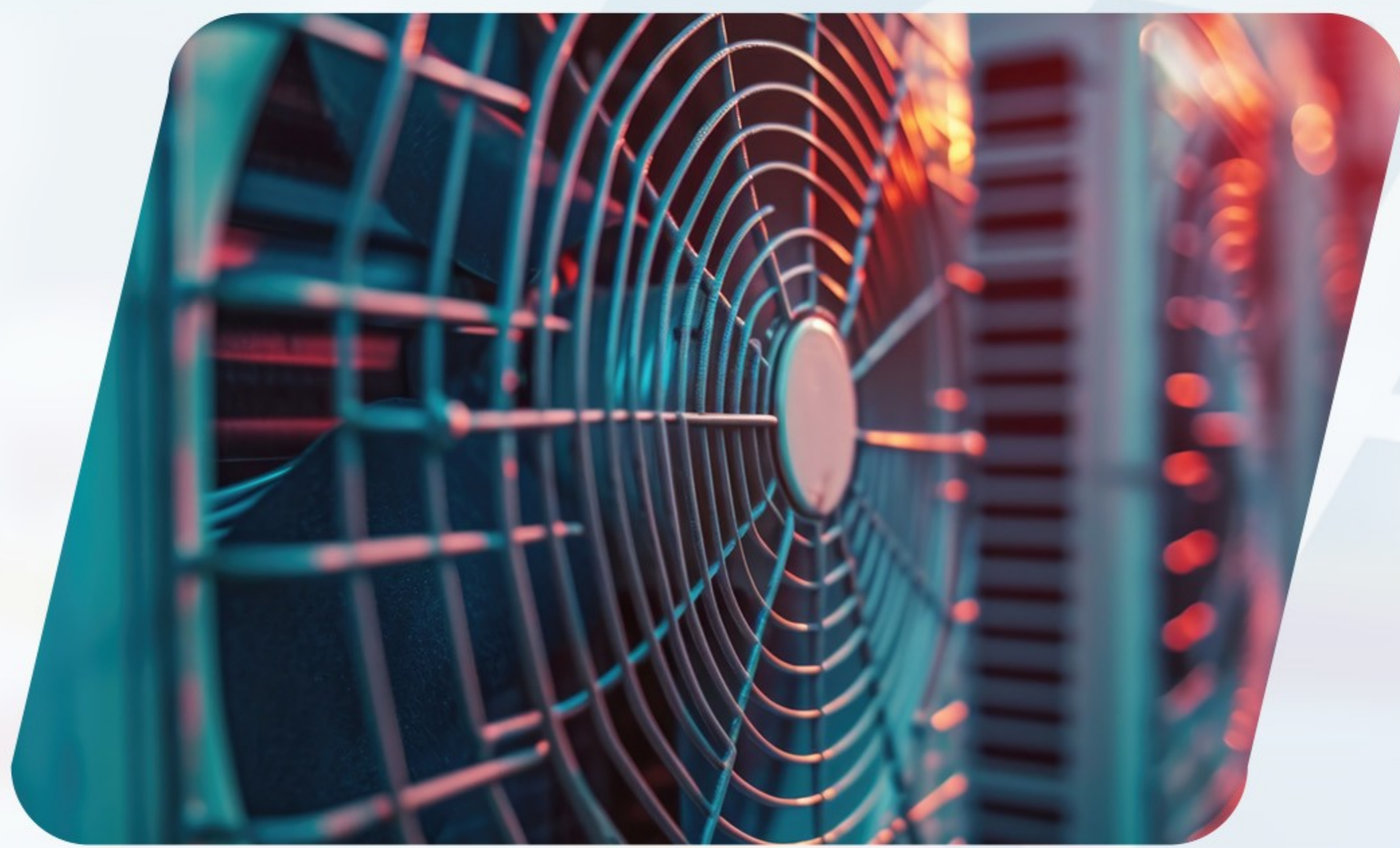
Air filter monitoring
(clogging detection)



Cleanroom pressure control



Ventilation & duct
pressure monitoring



Fan & blower status monitoring



Air Handling Units (AHU)

Related Products



Danfoss KP36
Pressure Switch



Differential Pressure
Switch Honeywell
DPS400



Pressure Sensor for
HVAC Systems Siemens
QBM2030-5



Air Differential Pressure
Switch Greystone
GFS83C-NPMPN

Temp | Humidity | Pressure | Differential Pressure | Vacuum | Gases | Particle | Air Flow
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux | Distance | Vibration

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