



# AIR SHIELD MONITORING SYSTEM

ISO 23875 compliant cabin air quality monitor system

ISO

ISO 23875 Compliant



CO<sub>2</sub> & Pressure Monitoring System



Reduce Occupation Exposure



High Efficiency Filter



Fresh & Recirculation System



Pressurization



**SIGMA**

# PROTECT YOUR OPERATOR

# REDUCE OCCUPATION EXPOSURE

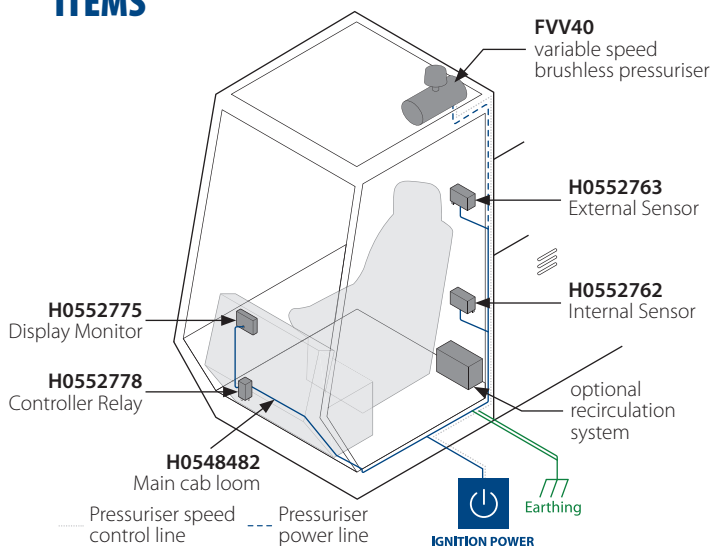
Improve operator air quality management and lower occupational exposure to hazardous particulate matter and CO<sub>2</sub> levels with our ISO 23875 compliant cabin air quality monitor system.



## Cabin Display

- CO<sub>2</sub> level in PPM
- Cabin Pressure in Pa & "WC
- CAN bus connectivity

## ITEMS



## ISO 23875 COMPLIANT



### Monitor CO<sub>2</sub> Levels

Monitor system display visual & audio alarm at pre-set levels.



### Fresh & Recirculation System Efficiency

Recirculation and fresh air filter enables efficient removal of harmful particles out of the cabin to meet ISO 23875 in a complying cabin.



### High Efficiency Filter

H13 HEPA filter upto 99.95% efficient at MPPS.



### Pressurization

Maintain a continuous stage of positive pressure (20Pa to 200Pa) in the cabin to avoid ingress of external particulates and contaminants.



### Real-Time Monitoring

Always-on sensors measures cabin air pressure and CO<sub>2</sub> levels and allows the operator to monitor in real time the operating conditions or air quality condition inside the cabin.

Data is available on CAN network to link up to central monitoring system.

## KEY BENEFITS



Ensure operator safety



Increase productivity



Reduce total cost of ownership



Extend overall machine life



Easy to install & user-friendly

SPECIFICATION	DISPLAY	SENSOR	CONTROLLER
Operating voltage	9-32 V	8-32VDC	9-32V
Current Draw	0.6mA (at 12V) 0.7mA (at 24V)	45mA (at 12V) 90mA (at 24V)	35mA (at 12V) 40mA (at 24V)
Environmental protection	IP 6K8 for variant with NMEA plug	-	IP 6K8 (watertight socket is used)
CO <sub>2</sub> sensor	-	0 to 5000 ppm	-
Temperature and Humidity sensor	-20°C to 60°C	-40°C to 70°C 0 to 100%RH	-40°C to 85°C
Pressure	-	0 to 500Pa	-
Weight	100g (3.5oz)	450g (15.9oz)	28g (1.0 oz)
Dimensions (L X W X H)	74mm x 40mm x 70mm (2.9in x 1.6in x 2.8in)	96mm x 46mm x 90mm (3.8in x 1.8in x 3.5in)	30mm x 30mm x 52mm (1.2in x 1.2in x 2.0in)



Phone: 1300 643 643  
www.sigma-hvac.com



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