

MultiSens

Indoor air sensor
PM 2.5 | PM 10 | CO₂
VOC | Humidity | Temp.

HÖCKER[®]
POLYTECHNIK

Always one idea ahead

The MultiSens system monitors areas of your offices, production or workplaces on fine dust, CO₂, VOC or organically volatile vapours.



This ensures optimum production conditions for you as the operator.

Install the MultiSens room air sensor and get easy access to information such as fine dust / VOC loads, CO₂ emissions, humidity or temperature. Quite simple with the built-in traffic light function or via Intranet or directly at the control cabinet panel.

With this knowledge, you can minimize the burden on your employees in a targeted manner and identify risks at an early stage. Your MultiSens system monitors air quality with high precision - around the clock.

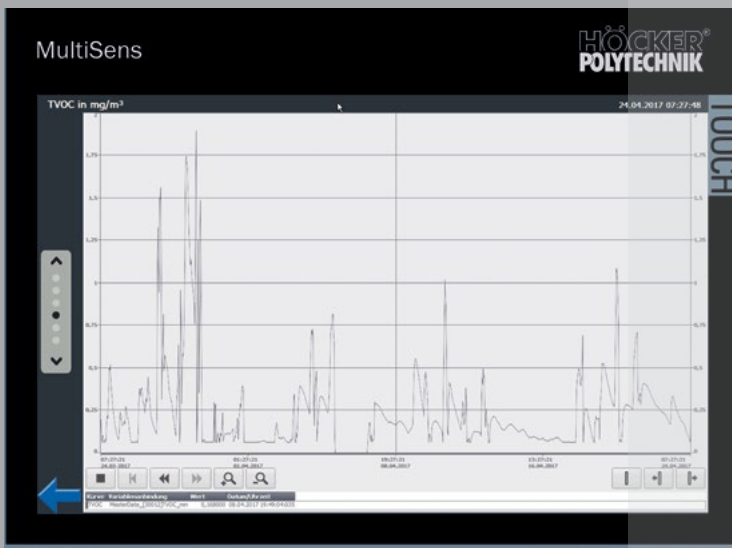
Protect the health of your employees.

The MultiSens provides you with the important information to minimize the concentration of particulate matter or solvents.



The MultiSens at a glance

- Industrial quality with robust protection cage (optional) and low susceptibility to faults
- Indicates the current air quality via an LED traffic light
- Can be integrated into the company's own control station (via ModBus)
- 24-hour real-time monitoring in constant air flow
- Display errors due to fluctuations in humidity and temperature are minimized
- 100 - 240 V Connection (AC)
- ModBus interface for data transmission to control station or visualization system
- Suction of ambient air via an integrated fan
- Significantly more efficient than person-operated systems: covers approx. 50 m² of working space



The MultiSens recognizes

- Fine dust PM2.5 (particle size: 2.5 µm)
- Fine dust PM10 (particle size: 10 µm)
- Volatile organic compounds (VOCs)
- CO₂ concentration
- temperature
- air humidity

Technical data

General information	
Parameters	PM _{2.5} , PM ₁₀ , CO ₂ , VOC, temperature, air humidity
Data transmission	RS 485 (ModBUS)
Detection range	Temperature: 0 °C to 50 °C Air humidity: 0 to 99%
Power supply	12 V to 36 VDC or 100 to 240 VAC
PM _{2.5} / PM ₁₀ detection	
Sensor	Laser particle sensor (light scattering)
Detection range	PM _{2.5} : 0 - 1000 µg / m ³ PM ₁₀ : 0 - 1000 µg / m ³
Resolution	0,1 µg / m ³
Nullpunktstabilität	±5 µg / m ³
Accuracy	10% of the measured value
Temperature and humidity	
Sensor	High precision sensor for temperature and humidity
Detection range	Temperature: -10 °C bis 50 °C Air humidity: 0 bis 95% (RH)
Resolution	Temperature: 0,01 °C air humidity: 0,01 % (RH)
Accuracy	Temperature: < ±0,5 °C Air humidity: < ±3,0 % (RH) (20 - 80% RH)
CO ₂ detection	
Sensor	Non-dispersive IR sensor
Detection range	0 to 2.000 ppm (up to 5.000 ppm)
Resolution	1 ppm
Accuracy	± 40 ppm +3% of the displayed value
VOC detection	
Sensor	VOC sensor (volatile organic compounds)
Detection range	0 to 2 mg/m ³
Resolution	0,001 mg/m ³
Accuracy	± 0,02 mg +10% of the displayed value

Air quality at a glance



Green light: Everything's fine.



Orange light: The threshold value has been reached. Attention recommended.



Red light: The threshold value has been exceeded. Action required. Shut down the source of the interfering substance or ensure air exchange.



HÖCKER POLYTECHNIK GmbH
Borgloher Straße 1
49176 Hilter a.T.W.
Germany

phone +49 5409 405 0
email info@hpt.net



www.hoecker-polytechnik.com

HÖCKER[®]
POLYTECHNIK

Always one idea ahead

