

JST Air Quality Sensor

Health protection in the control room! AI-controlled air quality sensor replaces human senses. This way, the ability to concentrate and well-being can be increased.



Room temperature

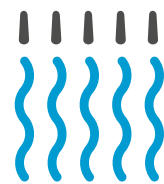


Humidity



VOC detection (Volatile Organic Compounds)

Control of indoor air



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+49 4161 – 54044-0

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Functional solution creates optimized working conditions



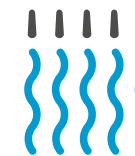
Air quality sensor checks status of indoor air

Keeping concentration and attention at a constantly high level for hours on end - a requirement that control room employees in particular must perform. The problem: *Volatile organic compounds (VOCs)* impair the indoor air quality, but are not consciously registered by the employee. The result is fatigue and a lack of concentration.

Perform air analyses - the human nose is not made for that. This task is performed by sensors that have been developed to permanently monitor the indoor air for concentrations of undesirable compounds. JST has now optimized this option into a functional solution especially for work in the control room: The JST Air Quality Sensor complements the many ergonomic benefits of the **Stratos X11 control room console**.

If defined threshold values are reached, the system actively alerts the operator with a warning message. A traffic light system makes it easy to identify deviations on the JST CommandPad integrated into the Stratos surface. The basis for this is the myGUI® graphical user interface, which is used for convenient control room operation with MultiConsoling®.

In addition to VOC detection, the sensor, which calibrates itself independently with AI control, also has **additional functions**: Room temperature and humidity are also measured continuously.



Monitoring of indoor air prevents negative effects on well-being



Volatile Organic Compounds (VOCs) are continuously detected



Basis for increased attention to monitoring tasks in the control room



AI-driven analysis reliably replaces warning signals from human senses



Easy to identify via traffic light system in the myGUI® user interface



Values for temperature and humidity are also permanently determined



„Electronic nose“ as a permanent companion at the workplace:
The VOC air quality sensor can be optionally attached directly at the Stratos desk - discreetly on the back.

Body reacts to gradual change: Everyone remembers the situation from the school days: just a moment ago, the air in the room seemed acceptable. But even after leaving class for a short time, it becomes clear upon returning how „thin“ the air suddenly seems. Oxygen is missing here. However, the human senses do not consciously perceive the gradual change. Rather, the body reacts to what it is missing. The spectrum ranges from concentration problems and exhaustion to irritation of the eyes and mucous membranes or headaches

