

ALLNET MSR Sensor ALL4454 / Smoke detector/gas sensor in "white" housing

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Highlights:

- New flat desktop / wall-mounted housing made of aluminium
- compatible with ALL34xx/3500/4500/5000
- I2C bus for multiplexing use
- Available in either black or white
- Angle brackets for wall mounting

Measure, control and regulate automatically and independently

ALLNET has been pursuing the concept of intelligent control of building technology processes via the network and Internet for years. Intelligent building technology not only offers more comfort, but also actively promotes energy cost savings. Centrally controlled and accessible via the network / Internet, ALLNET home automation products enable intelligent building technology regardless of time and location.

The ALL4454 smoke detector/sensor can also be used for the detection of gases.

The **Figaro TGS813** is a MOS gas sensor based on tin dioxide (SnO₂) for the reliable detection of **combustible gases** such as methane, propane and butane. In the presence of gases, the sensor resistance changes in proportion to the gas concentration, which enables simple and cost-efficient evaluation. Thanks to its **high sensitivity, good long-term stability and simple integration**, the TGS813 is ideal for gas detection and safety applications in industry and building technology.

Smoke detector/sensor in desktop/wall-mounted housing

- detects smoke and gas



- Aluminium housing with bracket for wall mounting
- Multiple multiplexing = several multiplexing modules on one line
- Connection: 2x RJ45
- **(not compatible with ALL3000/400x)**

Recommendation for calibration

For reliable commissioning of the **ALL4454/TGS813**, it is recommended that the sensor is first operated in **fresh, well-aerated ambient air**. After a sufficient warm-up time, the current measured value is recorded as a **reference value for clean air**.

Suitable gas or smoke detector test spray can then be used for function testing and calibration. The altered sensor value measured in the process serves as a **comparison or alarm value**.

By comparing the measured values of clean air and gas/smoke air, the **difference can be clearly determined**. On this basis, **threshold values, rules and actions** can be reliably defined in the **MSR control centre** or control system.

Technical data:

Element	Specification
Sensor type	Smoke/gas sensor
Meßrange:	0 to 100
Chip	ADS1100A3
Connection:	2x RJ45 (I2C bus)
Multiplexing:	Pay attention to same sensor types at the port! - see note below
LED displays:	1x PWR, 1x BUS
How to use:	Metal walkway
Environment:	Temperature operation: -45 ~ 90 °C Humidity operating: 0 % ~ 100 % (non-condensing) Storage temperature: -20 ~ 60 °C Humidity storage: 5 % ~ 90 % (non-condensing)
Labelling:	CE, RoHS
Dimensions:	79 x 50 x 24 mm (length x width x height)
Weight:	230 grams (without packaging and accessories)
Packaging contents:	1x ALL4454 smoke detector / sensor 1x connection cable

Multiplexing - Note on operating multiple sensors on one sensor port



In contrast to the ALL3000/4000, the ARM and MIPS-based systems allow more than one sensor to be operated on one physical port. sensor on one physical port.

The hardware requirement is that the sensors have 2 RJ45 connections so that the sensor signal can be forwarded to the next sensor. The total cable length of 100 metres is not increased as a result.

In order for the sensors to be uniquely identified by the devices, it is necessary for them to have different I2C chip addresses on the software side

. have different I2C chip addresses and IDs. Sensors with the same chip address and adjustable ID can be combined. For sensors without an adjustable address, only 1 sensor type can be connected per port.

Attributes

Attribute	Value
Bauform:	Metallgehäuse
Einsatzorte MSR:	indoor
Kompatibilität Zentrale:	ALL3419;ALL3500;ALL3500PoE;PoE Signallampe;ALL3696;ALL3420;ALL5000;ALL4500;ALL5000v2;ALL3418;ALL5100;ALL4176;ALL3692;
Sensorart:	Rauch&Gas;
Weight:	0.162 Kg
Warranty:	24.00 Months

Accessories

Part No.	Name
104126	ALLNET ALL3505 / IP Homeautomation Appliance DIN-Rail 8x I2C
206211	ALLNET MSR Central "ALL5000v2" incl. 16 Sensor Ports & 19" for IP Building Automation