

## Pressure sensor



Title	Article No.
S-1141	ZAKKT0047

The SPS is a multi-range differential pressure transmitter with an analog/digital output and Modbus RTU communication. This calibrated pressure transmitter has eight switchable measuring ranges and is equipped with a state-of-the-art monolithic silicon pressure sensor designed for a wide range of applications. The piezo-resistive transducer is temperature and pressure compensated and has a high degree of reliability and accuracy. The sensor can measure air or other non-aggressive, non-combustible gases.

### Technical data:

- › Analog (0-10 VDC/0-20 mA) or digital output (PWM, open collector)
- › Measuring range: 0 to 2000 Pa, automatically switched according to set point
- › Modbus RTU (RS485)
- › Operating temperature: 10 to 60°C (temperature compensated)
- › Accuracy:  $\pm 3$  % of final value (analog voltage output)
- › Long-term stability:  $\pm 1$  % per year
- › Response time: 0,5/1/2/5 sec

### Power consumption:

- › 18-34 VDC supply: 20-10 mA (no load)
- › 15-24 VAC supply: 15-10 mA (no load)

# CO<sub>2</sub>

## CO<sub>2</sub> sensors



S-RCO2-F2

S-KCO2

Title	Article No.	Title	Article No.
S-RCO2-F2	ZAKKT0048	S-KCO2	ZAKKT0049

The self-calibrating microprocessor-controlled room and duct CO<sub>2</sub> sensors are used for the detection of the CO<sub>2</sub> content in air within a range of 0 to 10000 ppm CO<sub>2</sub>. The measurement signals generated by the CO<sub>2</sub> transmitter are converted into standard signals of 0 - 10 V. The CO<sub>2</sub> content in the air is determined by a NDIR sensor (non-dispersive infrared technology sensor). The detection range of the CO<sub>2</sub> sensor is calibrated for standard applications such as monitoring of apartment rooms or meeting rooms. Room ventilation on an as-needed basis, improvement of well-being and customer benefit, increased comfort as well as a reduction of operating costs by saving energy.

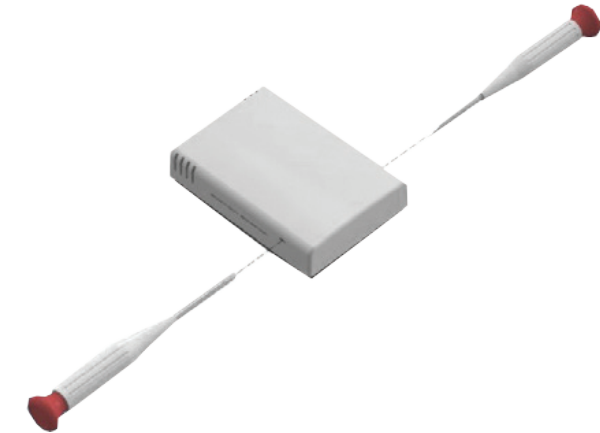
### Technical data

Type	S-RCO2-F2	S-KCO2
Measuring range, CO <sub>2</sub>	Jumper selection: 450 to 1.850 ppm / 0 to 1.000 ppm / 0 to 1.500 ppm / 0 to 2.000 ppm	Jumper selection: 450 to 1.850 ppm / 0 to 1.000 ppm / 0 to 1.500 ppm / 0 to 2.000 ppm
Output, voltage	0-10 V	
Power supply	15-24 VAC ±10 %/18-34 VDC	
Ambient temperature	-10...+50 °C	0...+50 °C
Display	No	No
Dimensions	104.5x74.5x25.6	100x104x280
Protection class	IP30	IP20
Installation	Wall mounting or in wall flush box, 60mm	Duct

## Humidity sensors



S-KFF-U



S-RFF-U-D-F2

Title	Article No.
S-KFF-U	ZAKKT0051

Title	Article No.
S-RFF-U-D-F2	ZAKKT0050

The calibrateable duct and room humidity sensors S-KFF-U, S-RFF-U-D-F2, accuracy class  $\pm 3\%$  r.H., measures the relative humidity of air. The humidity transmitter converts the measurand humidity into standard signals of 0 - 10 V or 4...20 mA. This humidity sensor is applied in non-aggressive dust-free ambiances in refrigeration, air conditioning, ventilation and clean room technology. Relative humidity (in % r.H.) is the quotient of water vapour partial pressure divided by the saturation vapour pressure at the respective gas temperature. These measuring transducers are designed for exact detection of humidity. A digital long-term stable sensor is used as measuring element for humidity measurement. Fine adjustment by the user is possible.

Technical data		
	S-KFF-U	S-RFF-U-D-F2
Type		
Measuring range, humidity	15-90 % RH	Jumper selection: 20-90 % RH/0-60 % RH/0-80 % RH/0-100 % RH
Output, voltage	0-10V	
Power supply	18-32 VDC $\pm 10\%$ / 15-24 VAC	
Electrical connection	0,14 - 1,5 mm <sup>2</sup>	
Cable gland	M16	-
Dimensions	100x80x285mm	105x75x26
Protection class	IP54	IP 30
Installation	duct	Wall mounting or in wall flush box, 55mm

# TJK-10K / TJP-10K

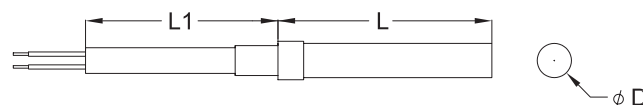
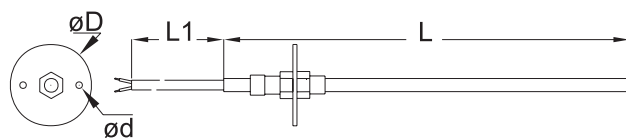
## Temperature sensors



TJK-10K



TJP-10K



Title	Article No.
TJK-10K	PJUT0024

Duct sensors used in measuring air temperature in ventilation ducts. With adjustable insertion length.

Title	Article No.
TJP-10K	PJUT0028

TJP-10K temperature sensors used in measuring return water temperature.

### Technical data

Type	Temperature range [°C]	Time constant [s]	Casing
TJK-10K	-30...+105	15	Plastic
TJP-10K	-30...+105	15	Stainless steel

### Dimensions

Type	L, [mm]	L1, [mm]	øD, [mm]	ød, [mm]
TJK-10K	230	1500	40	3,2
TJP-10K	50	2000	8	-