



## SPSA

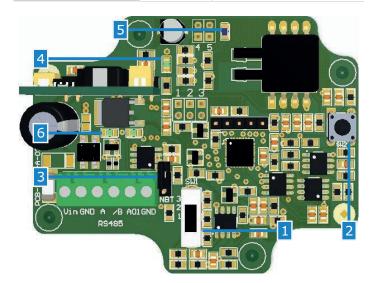
# Pressure controller for actuator powered damper

The SPSA differential pressure controllers directly control actuator powered dampers. They are equipped with Modbus RTU communication and have an analogue / digital output. The SPSA controllers feature integrated PI control and setpoint adjustment. They are temperature compensated and provide a high degree of reliability and accuracy.

### **Key features**

- · Long-term stability and accuracy
- 1 analogue or 1 PWM (open collector) output
- Modbus RTU (RS485) communication
- Integrated PI control and setpoint adjustment
- Automatic range selection according to the selected setpoint
- Modbus register reset function (factory preset values)
- · Sensor calibration procedure
- Aluminium pressure connection nozzles

	Te	echnical specifications
Outputs	1 analogue output (0—10 VDC / 0—20 mA) / 1 digital output PWM (open collector)	
Consumption	No load	18—34 VDC supply: 20—10 mA 15—24 VAC supply: 15—10 mA
Operating pressure range	0—2.000 Pa	
Operating mode	Differential pressure	
Accuracy (analogue voltage output)	±3 %	
Long-term stability	±1 % per year	
Protection standard	IP65 (according to EN 60529)	
Ambient conditions	Temperature	10-60 °C
	Rel. humidity	< 95 % rH (non-condensing)





		Article codes
	Supply	Connections
SPSAG-2K0	13-26 VAC 18-34 VDC	3-wire
SPSAF-2K0	18-34 VDC	4-wire

#### Area of use

- Pressure control in premises
- Clean air and non-aggressive, non-combustible gases

	Wiring and connections
Vin	Positive DC voltage / AC ~
GND	Ground / AC ~
Α	Modbus RTU (RS485) signal A
/B	Modbus RTU (RS485) signal /B
AO1	Analogue / PWM (open collector) output
GND	Ground
Connections	Cable cross section: max. 0,75 mm² Cable gland clamping range: 3—6 mm

**Caution:** If a G-type article is using the same AC power supply source (transformer) as F-type article, a SHORT CIRCUIT may result when the power supply and analogue signal terminals are connected to the same common ground! In this case always connect different article types to separate AC transformers or use the same article version.

If an AC power supply is used with any of the units in a Modbus network, the GND terminal should NOT BE CONNECTED to other units on the network or via the CNVT-USB-RS485 converter. This may cause permanent damage to the communication semiconductors and/or the computer!

## **Modbus registers**



The Sensistant Modbus configurator allows you to easily monitor and/or configure Modbus parameters.

The parameters of the unit can be monitored / configured through the 3SModbus software platform. You can download it from the following link:

https://www.contors.gu/con/3SMContors.

https://www.sentera.eu/en/3SMCenter

For more information about the Modbus registers, please refer to the Modbus register map of the product.  $\,$ 

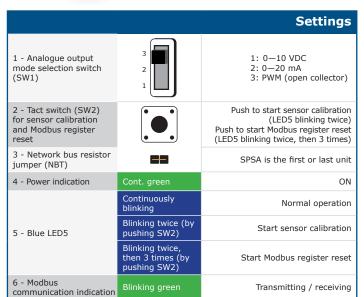
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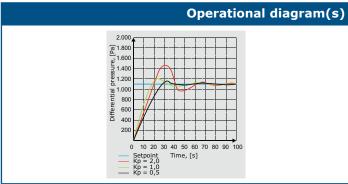


# SPSA

Pressure controller for actuator powered damper



( indicates closed position of the jumper.)





Global trade item numbers (GTIN)				
Packaging	SPSAG-2K0	SPSAF-2K0		
Unit	05401003014820	05401003014813		
Carton	05401003302156	05401003302149		
Box	05401003503089	05401003503072		

