

**Pendulum airflow sensor or measuring transducer for flow velocity and volume flow, on-wall housing with external duct probe, incl. mounting flange, calibratable with Modbus connection**

Calibratable pendulum airflow sensor **RHEASGARD® PLGF-Modbus** with Modbus connector, housing made of impact-resistant plastic with quick-locking screws, with cable gland (optional M12 connector as per DIN EN 61076-2-101) optionally with / without display, with external duct probe incl. mounting flange, to determine the flow velocity (0.1...20 m/s).

Calibratable pendulum airflow sensor **RHEASGARD® PLGFV-Modbus** with Modbus connection, housing made of impact-resistant plastic with quick-locking screws, with cable gland (optional M12 connector as per DIN EN 61076-2-101) optionally with/ without display, with external duct probe incl. mounting flange, to determine the flow velocity (0.1...20 m/s). The following parameters can be queried by the Modbus: flow velocity and volume flow (calculated).

The flow sensors are suitable for monitoring or controlling airflows in ducts, at fans and dampers, for flow-dependent monitoring of humidifiers and electric heating registers according to DIN 57100, Sect. 420, or for use in connection with DDC systems.

Innovative Modbus sensor with galvanically separated RS485 Modbus interface, selectable bus termination resistance, DIP switch for setting the bus parameters and bus address in the current-free state, internal LEDs for telegram status indication, two separate push-in terminals and large three-line display (illuminated).

The sensor is factory-calibrated.

#### TECHNICAL DATA

Power supply:	24 V AC / DC (± 10 %)
Current consumption:	approx. 4 VA
Data points:	flow velocity [m/s], volume flow [m³/h]
<b>AIRFLOW</b>	
Sensor:	calorimetric, temperature compensated, sensor breakage protection, with manual zero-point calibration (via push-button)
Measuring range:	0.1...20 m/s
Accuracy:	0.5 m/s + 3 % measured value
Long-term stability:	± 0.5 % of final value per year
Reproducibility:	± 1.0 % of final value
Warm-up time:	< 2 min
Response time:	< 5 s
Start-up override:	0...120 s (can be set via potentiometer)
Communication:	<b>Modbus</b> (RTU cable)
Bus interface:	RS 485, <b>galvanically isolated</b>
Baud rate:	9600, 19200, 38400 Baud
Bus protocol:	Modbus (RTU mode), address range 0... <b>247</b> selectable
Signal filtering:	0...30 values
Housing:	plastic, UV-resistant, polyamide material, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), enclosure cover for display is transparent!
Housing dimensions:	126 x 90 x 50 mm (Tyr 2)
Cable connection:	<b>cable gland</b> made of plastic (M 16 x 1.5; with strain relief, replaceable, max. inner diameter 10.4 mm), optionally with <b>M12 connector</b> as per DIN EN 61076-2-101
Electrical connection:	0.2 - 1.5 mm², via push-in terminal
Probe/sensor:	polyamide (PA6) material, white colour (blue sensor holder), with torsion protection, Ø 12 mm, EL = approx. 20 - 155 mm, v <sub>max</sub> = 30 m/s (air)
Sensor cable:	PVC LiYY, 5-wire, KL = approx. 2.4 m
Process connection:	by means of mounting flange with seal (included in the scope of delivery)
Mounting:	on-wall housing with external duct probe – observe flow direction!
Ambient temperature:	storage -20...+50 °C; operation 0...+50 °C
Medium temperature:	0...+70 °C
Permitted humidity:	< 98 % RH, non-precipitating air free of harmful substances
Protection class:	III (according to EN 60 730)
Protection type:	<b>IP 65</b> (according to EN 60 529) housing; IP20 sensor technology
Standards:	CE conformity according to EMC Directive 2014 / 30 / EU
Optional:	<b>display with illumination</b> , three-line, cutout approx. 70 x 40 mm (W x H), to indicate the flow velocity and volume flow (cyclical) or a selectable parameter (static)



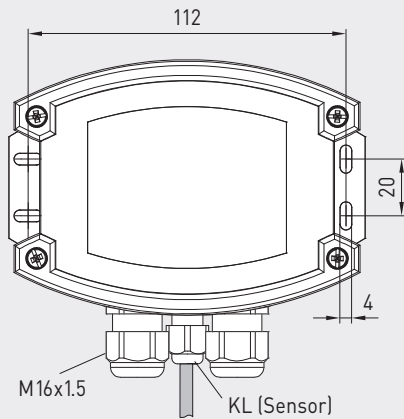
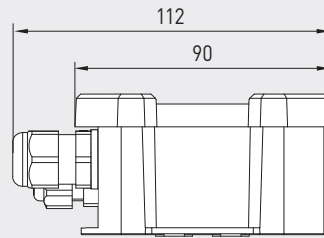
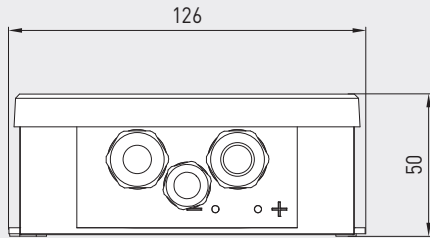
**NEW**

S+S REGELTECHNIK

RHEASGARD® **PLGFV-Modbus**

Pendulum airflow sensor or measuring transducer for flow velocity and volume flow, on-wall housing with external duct probe, incl. mounting flange, calibratable with Modbus connection

Dimensional drawing (mm)

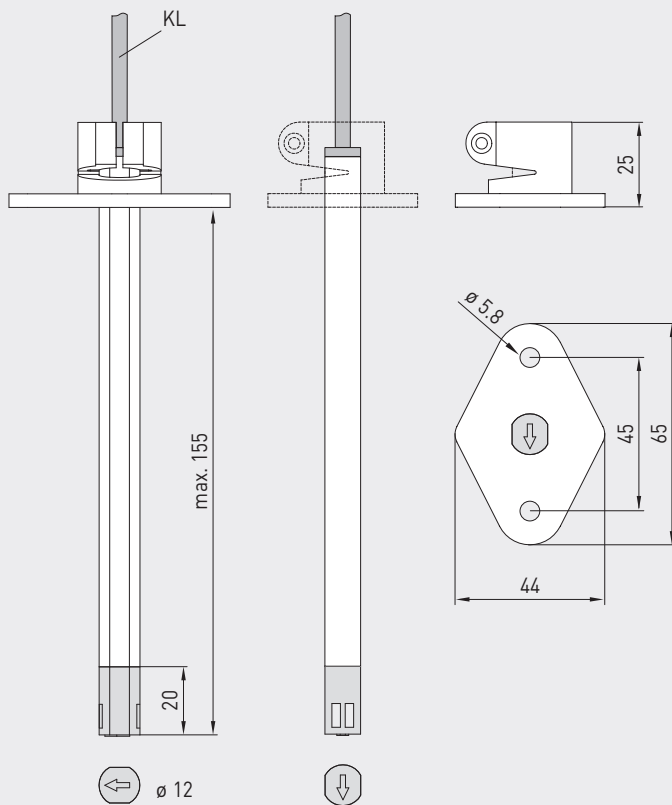


PLGF-Modbus  
PLGFV-Modbus  
Housing

PLGF-Modbus  
PLGFV-Modbus  
Housing with  
external probe



Dimensional drawing (mm)



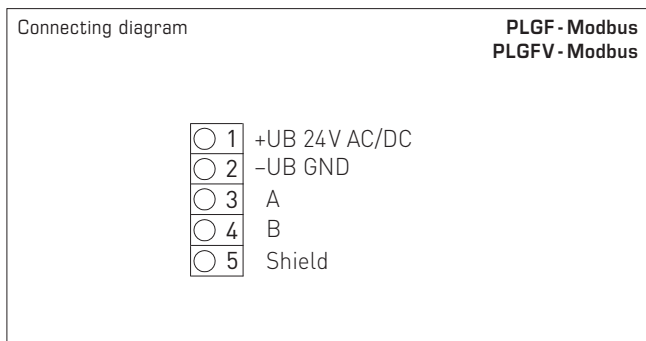
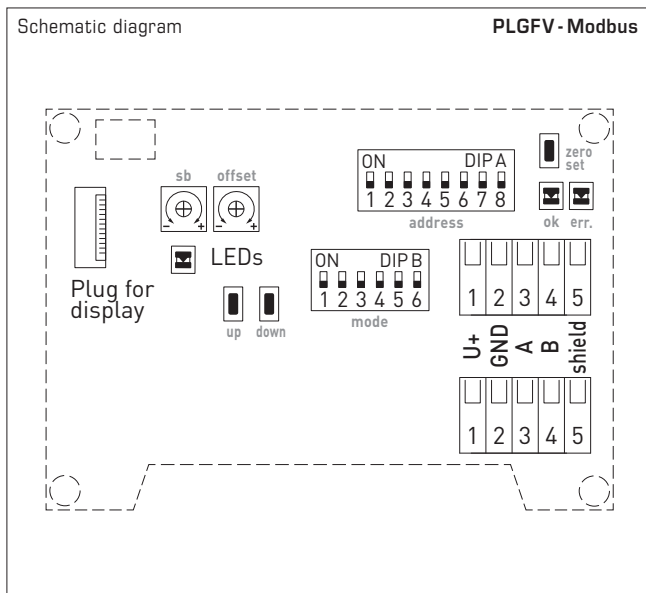
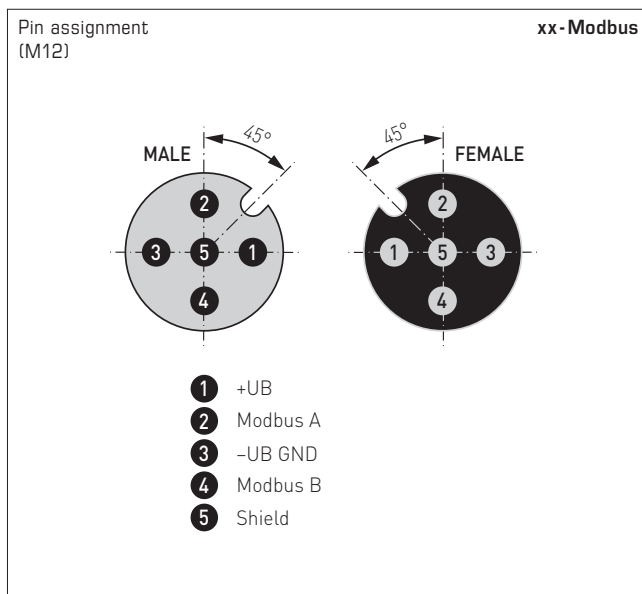
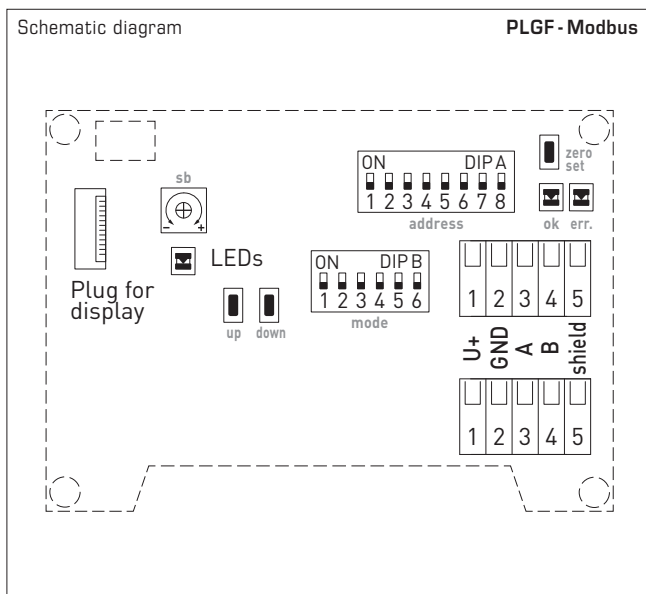
PLGF-Modbus  
PLGFV-Modbus  
Probe



Automatic detection and switching to standard signal 0...10V or 4...20mA

**AOS-PATENTED**  
AUTOMATIC OUTPUT SWITCHING

Pendulum airflow sensor or measuring transducer for flow velocity and volume flow, on-wall housing with external duct probe, incl. mounting flange, calibratable with Modbus connection





S+S REGELTECHNIK

NEW

RHEASGARD® PLGFV-Modbus

Pendulum airflow sensor or measuring transducer for flow velocity and volume flow, on-wall housing with external duct probe, incl. mounting flange, calibratable with Modbus connection

PLGF-PLGFV-Modbus

PLGF-Modbus with display



<b>RHEASGARD®</b> <b>PLGF-Modbus</b> <b>PLGFV-Modbus</b>	Duct air flow sensor or measuring transducer, <i>Deluxe</i> Duct air flow sensor or measuring transducer for flow velocity and volume flow, <i>Deluxe</i>
--	--

Type / WG01	Measuring ranges		Output	Item no.	Price
	Flow velocity	Volume flow			
<b>PLGF-Modbus</b>					
PLGF-Modbus	0,1...20 m/s	–	Modbus	1701-6216-0101-000	<b>312,79 €</b>
PLGF-Modbus LCD	0,1...20 m/s	–	Modbus	■ 1701-6216-1101-000	<b>379,20 €</b>
<b>PLGFV-Modbus</b>					
PLGFV-Modbus	0,1...20 m/s	0...200.000 m³/h	Modbus	1701-6216-0301-000	<b>340,93 €</b>
PLGFV-Modbus LCD	0,1...20 m/s	0...200.000 m³/h	Modbus	■ 1701-6216-1301-000	<b>404,91 €</b>
Optional:	Cable connection with <b>M12 connector</b> as per DIN EN 61076-2-101			on request	
<b>ACCESSORIES</b>					
<b>KA2-Modbus</b>	<b>Communication adapter</b> (USB/RS485) for system connection			1906-1200-0000-100	<b>229,23 €</b>
<b>LA-Modbus</b>	<b>Line termination device</b> (with terminating resistor) as an active bus termination			1906-1300-0000-100	<b>85,49 €</b>
<b>MFT-20-K</b>	<b>Mounting flange</b> , plastic (included in the scope of delivery)			7000-0031-0000-000	<b>10,24 €</b>

For further information see last chapter!

