RHEASGARD® KHSSFV-Modbus

Duct top-hat rail air flow sensor or measuring transducer for flow velocity and volume flow, electronic, external flow probe incl. mounting flange, calibratable, with Modbus connection



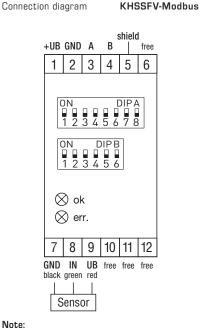
S+S REGELTECHNIK

Electronic duct top-hat rail air flow sensor RHEASGARD® KHSSFV-Modbus with Modbus connection, housing for installation in distributor boxes or control cabinets with 35 mm mounting rail, external flow probe incl. mounting flange, for determining the flow velocity (0.1...20 m/s). The following parameters can be retrieved from the Modbus: Flow velocity and volume flow (calculated).

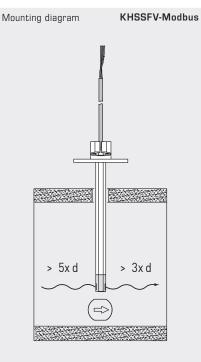
The flow sensors is suitable for monitoring or controlling airflows in ducts, at fans and dampers, for flow-dependent monitoring of humidifiers and electric heating registers according to DIN 57100, Sect. 420, or for use in connection with DDC systems.

Innovative Modbus sensor with galvanically isolated RS485 Modbus interface, switchable bus terminating resistance, DIP switch for setting the bus parameters and bus address in current-free state, LEDs for telegram status display. The sensor is factory-calibrated.

Power supply:	24 V AC/DC (± 10 %)				
Current consumption:	approx. 4 VA				
Data points:	Flow velocity [m/s], volume flow [m³/h]				
AIR FLOW					
Sensor:	calorimetric, temperature compensated,				
	sensor breakage protection				
Measuring range:	0.120 m/s				
Accuracy:	0.5 m/s + 3% measured value				
Long-term stability:	±0.5 % of final value per year				
Reproducibility:	\pm 1.0 % of final value				
Warm up time:	< 2 min				
Response time:	< 5 s				
Start-up override:	20 m/s for 60 s				
	(after applying the supply voltage)				
GENERAL					
Communication:	Modbus (RTU cable)				
Bus interface:	RS 485, galvanically isolated				
Baud rate:	9600, 19200, 38400 Baud				
Bus protocol:	Modbus (RTU mode), address range 0 247 selectable				
Signal filtering:	030 values				
LED operating status indicator:	Green LED [ok] error-free protocol received				
	Red LED [err.] protocol or checksum contains errors				
Housing:	PC / ABS (UL94-VO) material, light grey colour, 36mm (2TE) wide for 35mm mounting rail, approx. 90 x 36 x 58mm (HxWxD)				
Probe/sensor:	Polyamide (PA6) material, white colour (blue sensor holder), with torsion protection, Ø 12 mm, EL = approx. 20–155 mm, v _{max} = 20 m/s (air)				
Sensor cable:	PVC LiYY, 3-wire, KL = approx. 2.4 m				
Electrical connection:	0.14–2.5 mm², via screw terminal				
Process connection:	by means of mounting flange with seal (included in the scope of delivery)				
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 60730)				
Protection type:	IP 30 (according to EN 60529) housing IP 20 (according to EN 60529) probe				
Standards:	CE conformity according to EMC Directive 2014/30/EU				
	see last chapter				



To set the internal DIP switches, the housing cover must be removed.



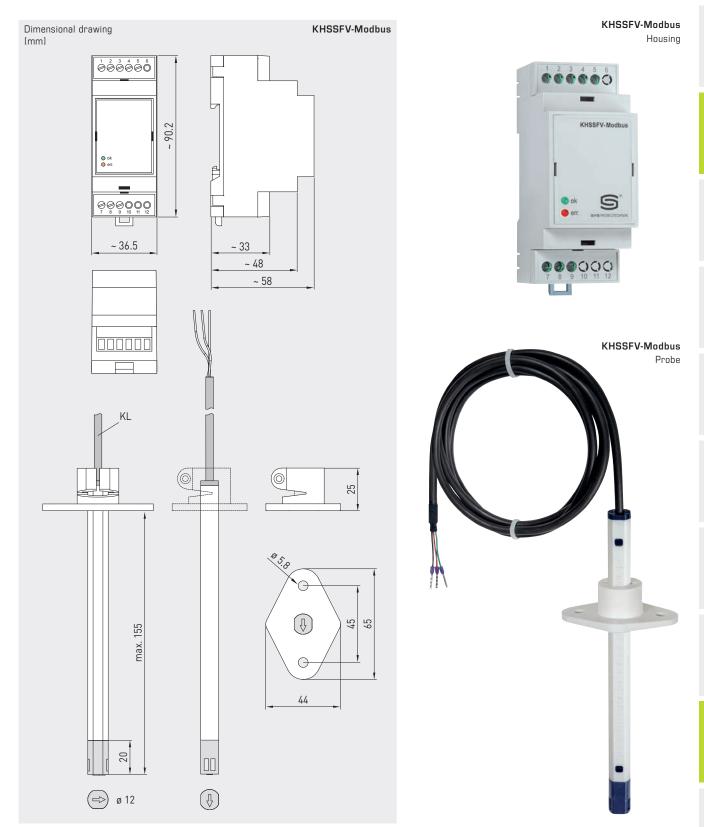
Note for mounting: Sensor works unidirectionally. Observe the markings for the direction of flow!



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RHEASGARD® KHSSFV-Modbus	Duct top-hat rail air flow sensor or measuring transducer for flow velocity and volume flow, Deluxe							
Type/WG01	Measuring ranges Flow velocity	Volume flow	Output	ltem no.		Price		
KHSSFV-Modbus								
KHSSFV-Modbus	0.120 m/s	0200.000 m³/h	Modbus	1701-52	16-0302-000	373,85 €		
Rev. 2025-V12 GB	• +49 (0) 911 / 5 19 47-0	@ mail@SplusS.de	👾 www.Spl	usS.de	S+S REG	Beltechnik		