Technical Datasheet

Room Pressure Controller iCM500-RP

SCHNEIDER
SCHAKO Group

1 Technical Data

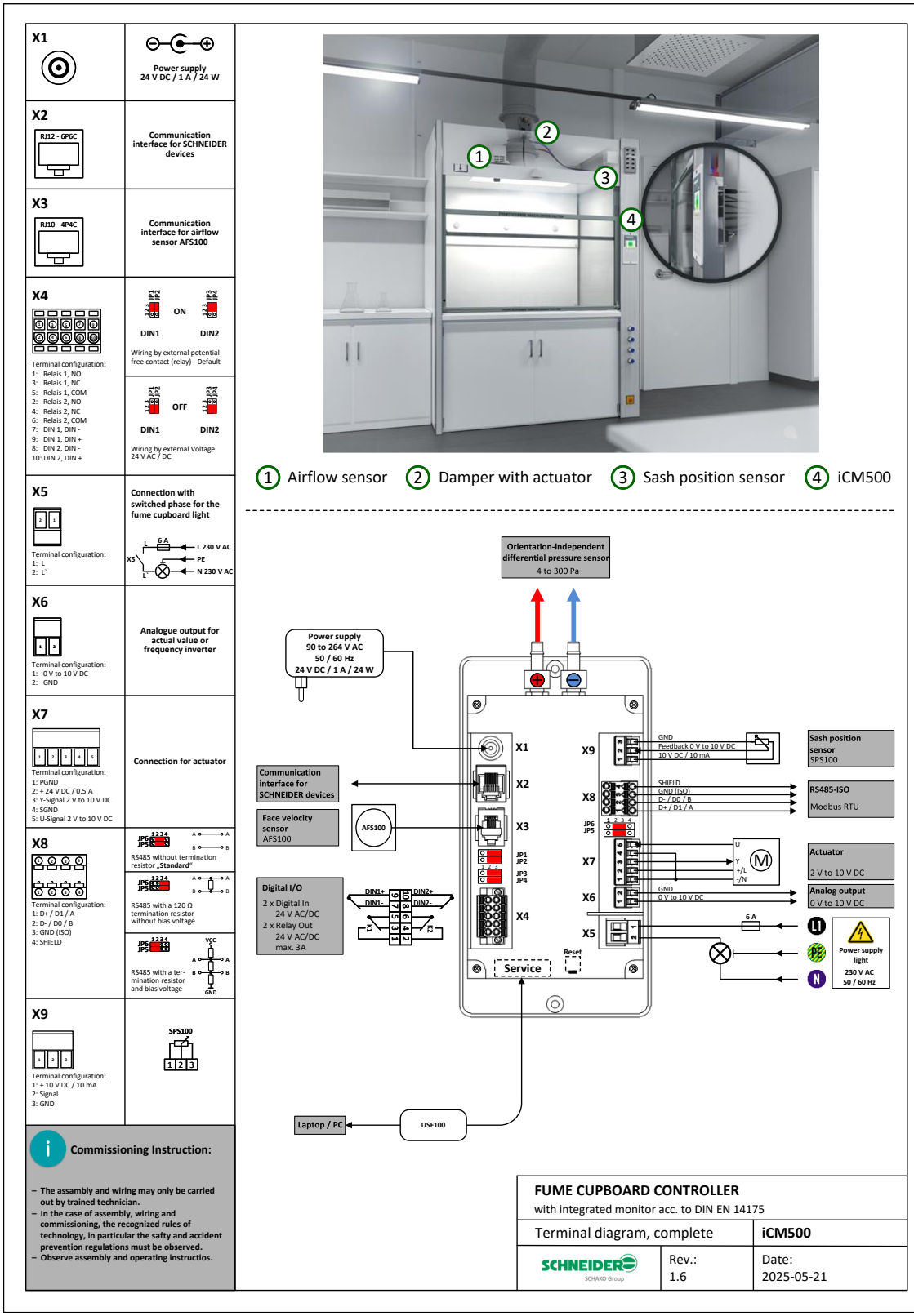
General	
Operating temperature	+15 °C to +40 °C
Storage temperature	-20 °C to +65 °C
Recovery time	5 to 10 s
Humidity	≤ 80 % (relative, non-condensing)
Overvoltage category	II
Degree of contamination	2
Protection Class	Class III
Environment	dry indoor areas
Altitude	≤ 2000 m above sea level
Housing	
Ingress Protection Rating	IP 20
Material	Polyamid
Color	similar RAL 7016 (anthrazit)
Dimensions (L × W × D)	168 × 94 × 61 mm
Weight	ca. 500 g
Low-voltage power supply input X1	
Input voltage range	22,8 to 26,4 V DC
Rated current	1,25 A
Rated power	30 W
Connection type	Socket for hollow plug 5,5 × 2,5 mm
Fusing (internal)	Short circuit, overload, overvoltage
Flush-mount power supply unit (optional)	
Type	Deutronic DP30UP-24-C
Input voltage range	100 to 240 V AC ±10 %
Frequency range	47 to 63 Hz (AC)
Rated current	1,25 A
Connection type	Strands
Wire cross-section (rigid/flexible)	0,5 mm², AWG20
Fusing (internal)	Short circuit, overload, overvoltage
Hat rail power supply unit (optional)	
Type	Mean Well HDR-30-24
Input voltage range	85 to 264 V AC
Frequency range	47 to 63 Hz (AC)
Rated current	1,5 A
Connection type	Screw terminals
Wire cross-section (rigid/flexible)	0,08 to 1,5 mm²

Fusing (internal)	Short circuit, overload, overvoltage
Plug-in Power Supply Unit (optional)	
Input voltage range	80 to 264 V AC
Frequency range	47 to 63 Hz (AC)
Efficiency	88,5 %
AC current	1 A / 115 V AC 0,6 A / 230 V AC
Output voltage	23,52 to 24,48 V DC
Rated current	1,25 A
Rated power	30 W
Peribus X2	
Quantity	1
Output power (max.)	1,2 W
Relay Outputs X4	
Quantity	2
Contact type	Changeover contact (SPDT)
Switching voltage (max.)	24 V AC / DC
Continuous current (max.)	3 A, external protection required
Wire cross-section (rigid/flexible)	0,08 to 1,5 mm²
Digital Inputs X4	
Quantity	2
Input voltage	24 V AC / DC
Input current (max.)	≤ 10 mA
Switching threshold (active)	1,2 V to 28 V DC
Switching threshold (inactive)	0 V to 1,2 V DC
Auxiliary voltage (internal)	24 V DC for external switching contact
Fusing (internal)	Short circuit, overload, overvoltage
Wire cross-section (rigid/flexible)	0,08 to 1,5 mm²
Differential Pressure Sensor	
Quantity	1
Pressure range	-150 bis 150 Pa
Response time	< 10 ms
Sensor burst pressure	0,3 bar
Analog Output X6	
Quantity	1
Output voltage	0 V to 10 V DC ± 1%, freely programmable
Resolution	10 bit
Load resistance	R_L ≥ 1000 Ω
Fusing (internal)	Short circuit, overload, overvoltage

Wire cross-section (rigid/flexible)	0,08 to 1,5 mm²
High-speed Modulating Damper Actuator X7	
Quantity	1
Nennspannung	24 V AC / DC
Torque	4 Nm, optionally 8 Nm
Running time	2.5 s at 4 Nm, 4 s at 8 Nm for 90° rotation
Control signal	Analog, 0(2) to 10 V DC
Feedback	Analog, 0(2) to 10 V DC
Resolution	< 0,5°
RS-485 Interface X8	
Quantity	1
Data rate (max.)	115 kBaud
Protocols	Modbus RTU
Cable	e.g. JY(St)Y 2 × 2 × 0.8 shielded

Table 1 – Technical Data

2 Terminal Diagram iCM500-DP



The information and data contained in this documentation have been compiled to the best of our knowledge and in accordance with the current state of the art (subject to technical changes). The currently valid version applies. The proven properties of SCHNEIDER products are based on the use of the products recommended in this documentation. Diverging situations and individual cases are not taken into account, so that we cannot assume any warranty and liability.

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Do you have any questions? We look forward to your message:

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