

Document Information:

Topic	Specification CAPBs
Products	CAPBs sens PS (p ressure s ensor)
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History:

Version	Date	Name	Description
1	20.01.16	MT	Initial release
2	02.02.16	MT	New names, article number
3	10.02.16	MT	New names
4	20.05.16	MT	Correction of specification
5	21.09.16	MT	Additional specs and new CAPBs sens PS33 (DVGW)
6	03.02.17	MT	Updated Directives & Standards and new CAPBs sens PS22, PS35, PS42, PS62
7	03.03.17	MT	Corrected measuring range for PS22
8	19.03.19	MT	Corrected units for PS60/61/62
9	31.07.19	MT	PT70 in extra specification sheet
10	12.03.20	MT	CAPBs device battery life and program
11	18.09.24	MT	Correction of PS4x and PS6x accuracy to ± 5 hPa

Technical Data

	PS10	PS20 (2xD8) PS22 (valve)	PS33 (1xD8) PS35 (valve)	PS40 (1xD8) PS41 (1xF3) PS42 (valve)	PS60 (1xD8) PS61 (1xF3) PS62 (valve)
Systronik Article No.	M090 05 01 10	2xD8: M090 01 01 10 valve: M090 01 34 10	1xD8: M090 19 29 10 valve: M090 19 34 10	1xD8: M090 08 29 10 1xF3: M090 08 30 10 valve: M090 08 34 10	1xD8: M090 10 29 10 1xF3: M090 10 30 10 valve: M090 10 34 10
Measuring Range	-20...+20 hPa 0.5...50 m/s	PS20: -180 +180 hPa 0.5...50 m/s PS22: 0 ...+ 180 hPa	2 bar	6 bar	20 bar
Max. pressure	250 hPa	1350 hPa	16 bar	16 bar	28 bar
Measuring principle	Piezoresistive sensor	Piezoresistive sensor	Piezoresistive sensor	Piezoresistive sensor	Piezoresistive sensor
Accuracy	±0.003 hPa or 0.5 % RDG ±1 Digit ± 0.3 m/s	±0.03 hPa or 0.5 % RDG ±1 Digit ± 0.8 m/s	±0.3 hPa or 0.5 % RDG ±1 Digit	±5 hPa or 0.5 % RDG ±1 Digit	±5 hPa or 0.5 % RDG ±1 Digit
Resolution	0.001 hPa 0.1 m/s	0.01 hPa (< 99.99) 0.1 hPa (> 100.0) 0.1 m/s	0.1 hPa (< 999.99) 1 hPa (>1000)	0.1 hPa (< 999.99) 1 hPa (>1000)	0.1 hPa (< 999.99) 1 hPa (>1000)
Mechanical connections	2xD8	2xD8 or valve DN 2.7	1xD8 or valve DN 2.7	1xD8 or 1xF3 or valve DN2.7	1xD8 or 1xF3 or valve DN2.7
CAPBs module: Battery life / rechargeable battery life	45 h / 32 h	45 h / 32 h	45 h / 32 h	45 h / 32 h	45 h / 32 h
CAPBs device: battery life	15 h	15 h	15 h	15 h	15 h
Dimensions [mm]	74 x 42 x 35	74 x 42 x 35 / 89 x 42 x 35	74 x 42 x 35 / 89 x 42 x 35	74 x 42 x 35 / 89 x 42 x 35	74 x 42 x 35 / 89 x 42 x 35
Weight [g]	34	34 / 100	34 / 100	34 / 30 / 100	34 / 30 / 100
Units	hPa, mbar, Pa, mmWs, mmHg, inHg	hPa, mbar, kPa, Pa, mmWs, mmHg, bar, inHg, psi	hPa, mbar, kPa, mmWs, mmHg, bar, inHg, psi	hPa, mbar, kPa, mmWs, mmHg, bar, inHg, psi	hPa, mbar, kPa, bar, psi
Medium	Non-aggressive gases	Non-aggressive gases	Non-aggressive gases	Non-aggressive gases	Non-aggressive gases
Barometric pressure	no	no	yes	no	no

S6600 CAPBs program

Pressure, Pressure loss, Leakage, 4-Pa-Test (PS10), Pitot (PS10, PS20), Leakage rate measurement (PS33/35, PS40/42), Gebrauchsfähigkeitsprüfung (PS33)

CAPBs device program

Pitot (PS10), Pressure (PS20/22, PS33/35, PS40/41/42, PS60/61/62)

Operation temperature

+ 0 °C ... + 40 °C

Storage temperature

- 20 °C ... + 50 °C

Housing

Plastic (PC+ABS)

Color

RAL 5011 (*steel blue*)

Protection Rating

IP40 (*DIN EN IEC 60529*)

Directives & Standards

2014/30/EU (CE), 2011/65/EG (RoHS), 2012/19/EU (WEEE)

All Technical Changes Reserved