

Document Information:

Topic	Specification CAPBs
Products	CAPBs sens PS (p ressure s ensor) and PT (p ressure t ransmitter)
Author	Matthias Trautmann

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

Technical Data

	PS10	PS20 (2xD8) PS22 (valve)	PS33 (1xD8) PS35 (valve)	PS40 (1xD8) PS41 (1xF3) PS42 (valve)	PS60 (1xD8) PS61 (1xF3) PS62 (valve)	PT70
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	M090 14 28 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	0...25 bar
Max. pressure	250 hPa	1350 hPa	16 bar	16 bar	28 bar	120 bar
Measuring principle	Piezoresistive sensor	Piezoresistive sensor	Piezoresistive sensor	Piezoresistive sensor	Piezoresistive sensor	Thin film strain gauge
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	±0.3 hPa or 0.5 % RDG ±1 Digit	±1 hPa or 0.5 % RDG ±1 Digit	- 0.5 % full scale ±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)	0.1 bar
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	DN5
CAPBs ST: 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	32 h / 24 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	76 x 42 x 35
Weight [g]	34	34 / 100	34 / 100	34 / 30 / 100	34 / 30 / 100	55
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, psi	bar, kPa, psi
Medium	Non-aggressive gases	Non-aggressive gases	Non-aggressive gases	Non-aggressive gases	Non-aggressive gases	Liquids and aggressive gases

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Barometric pressure	no	no	yes	no	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)

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