

8.1 Technical details

Technical details	
Application range	Standard
Module's device code	0501h
Number of ST output bits	64
Support in system environment A	
from ST firmware version for other head modules	7
from ST firmware version PSSu H S PN	1
from ST firmware version PSSu WR S IDN	4
Support in system environment B	
from head module ST firmware version	1.0.0
Electrical data	
Internal supply voltage (module supply)	
Supply voltage range of module supply	4.8 - 5.4 V
Module's current consumption	53 mA
Module's power consumption	0.26 W
Periphery's supply voltage (periphery supply)	
Voltage range	16.8 - 30.0 V
Module's current consumption with no load	10 mA
Module's power consumption with no load	0.24 W
Max. power dissipation of the module	0.50 W
Outputs	
Number of analogue outputs	4
Type of analogue outputs	Voltage
Output range	0 .. 10V
Resolution (without sign bit)	12 Bit
Permitted loads	capacitive, resistive
Min. permitted resistive load	5 kOhm
Max. short circuit current	25 mA
Deviations from the measuring range limit value	
Linearity error	0.05 %
Output variable error at 25° C	0.2 %
Temperature coefficient	0.02 %/K
Potential isolation between output and voltage for the internal module bus	yes
Potential isolation between output and periphery supply	yes
Times	
Typ. processing time	1.0 ms
Environmental data	
Climatic suitability	EN 60068-2-14, EN 60068-2-1, EN 60068-2-2, EN 60068-2-30, EN 60068-2-78
Ambient temperature in accordance with EN 60068-2-14	0 - 60 °C -40 - 70 °C coated version (-T)
Storage temperature in accordance with EN 60068-2-1/-2	-25 - 70 °C -40 - 70 °C coated version (-T)
Climatic suitability in accordance with EN 60068-2-30, EN 60068-2-78	93 % r. h. at 40 °C
Condensation	no yes coated version (-T)
Max. operating height above sea level	5000 m coated version (-T)
EMC	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-2, EN 61000-6-4

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Environmental data	
Vibration to EN 60068-2-6	
Frequency	10 - 150 Hz
Max. acceleration	1g
Shock stress	
EN 60068-2-27	15g
	11 ms
EN 60068-2-29	10g
	16 ms
Protection type in accordance with EN 60529	
Mounting (e.g. cabinet)	IP54
Housing	IP20
Terminals	IP20
Airgap creepage in accordance with EN 60664-1	
Overvoltage category	II
Pollution degree	2
Mechanical data	
Housing material	
Front	PC
Bottom	PC
Coding	PA
Dimensions	
Height	76.0 mm
Width	12.6 mm
Depth	60.2 mm
Weight	37 g
Mechanical coding	
Type	E
Colour	dark grey

The standards current on **2005-04** apply.

8.2 Order reference

Order reference	
Description	Order no.
PSSu E S 4AO U (Electronic module)	312 465
PSSu E S 4AO U-T (Electronic module, coated version)	314 465
Base modules	Order no.
PSSu BP 1/8S (Base module without C-rail with screw terminals)	312 600
PSSu BP 1/8S-T (Base module without C-rail with screw terminals, coated version)	314 600
PSSu BP 1/8C (Base module without C-rail with cage clamp terminals)	312 601
PSSu BP 1/8C-T (Base module without C-rail with cage clamp terminals, coated version)	314 601
PSSu BP-C 1/8S (Base module with C-rail with screw terminals)	312 610
PSSu BP-C 1/8S-T (Base module with C-rail with screw terminals, coated version)	314 610
PSSu BP-C 1/8C (Base module with C-rail with cage clamp terminals)	312 611
PSSu BP-C 1/8C-T (Base module with C-rail with cage clamp terminals, coated version)	314 611
PSSu BP 1/12S (Base module without C-rail with screw terminals)	312 618
PSSu BP 1/12S-T (Base module without C-rail with screw terminals, coated version)	314 618
PSSu BP 1/12C (Base module without C-rail with cage clamp terminals)	312 619
PSSu BP 1/12C-T (Base module without C-rail with cage clamp terminals, coated version)	314 619
PSSu BP-C 1/12S (Base module with C-rail with screw terminals)	312 620
PSSu BP-C 1/12S-T (Base module with C-rail with screw terminals, coated version)	314 620
PSSu BP-C 1/12C (Base module with C-rail with cage clamp terminals)	312 621
PSSu BP-C 1/12C-T (Base module with C-rail with cage clamp terminals, coated version)	314 621