

SPADC3



DESCRIPTION

8 logical inputs

4 logical outputs

7 analogue inputs

(3 voltage, 2 current, 2 temperature; in standard configuration; user selectable in time of order)

1 pulse counter

Communication via SMS

Input Event reporting

Usable in triband GSM networks

(900, 1800 and 1900 MHz)

Easy to use, DC or AC power 12 ... 24 V

CONTACTS

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SPADC3

SPECIFICATION

	Parameter	Symbol	Condition	MIN.	TYP.	MAX.	Units
Dimen- sions	Width	§			105		mm
	Height (without antenna)	v			61		mm
	Depth	h			90		mm
Power Supply	Voltage DC	V _{CC}	12V backup battery	14		30	V DC
	Voltage AC	V _{CC}		12		24	V AC
	Current	I _{CC}	V _{CCDC} = 14V	0,01	0,2	0,3	A
Logical Inputs	Count	-			8		-
	Voltage	V _{IN}		8	12	30	V
	Current	I _{IN}	V _{IN} = 12V		5		mA
	Speed	τ _{CHANGE}		3			ms
Logical Outputs	Count	-			2+2		-
	Coltage	V _{OUT}			V _{CC} - 2 V		V
	Current	I _{OUT}				300	mA
Analogue inputs „voltage“ AIn1 ... 3	Count	-			3		-
	Voltage	V		0,0		10,0	U _U
	Input impedance	kΩ		40	43		R _U
Analogue inputs „current“ AIn4 and 5	Count	-			2		-
	Current	mA		0,0		20,0	I _I
	Input impedance	Ω			100		R _I
Analogue inputs „temper.“ AIn6 and 7	Count	-			2		-
	Temperature	°C		0		100	υ
	Sensor	Ω	KTY 81-210	1603		3392	R _C
	Voltage	V		1,5		5,0	U _C
Tempera- ture	Short Circuit Current	mA		25		50	I _C
	Storage	t _{STG}		-40		+85	°C
	Operating	t _A		-20		+65	°C
GSM	GSM module			Siemens TC35			-
	Transport Service			SMS			-
	Type			GSM900 GSM1800 and GSM 1900			-
	Antenna Impedance	Z _A			50		Ω
	Trasmit Power	P				2	W

SPADC3

CHARACTERISTIC

SPADC3 is intended to be used for remote state monitoring and remote control of technological devices (i. e.: waterworks, small water power plants, drinking water distribution, etc ...). The module is usually built in the control box of the technology and connected to the monitored signals. The module is connected with a central computer (with GSM module) or with a mobile phone of suitable person (owner, user or maintain technician) via GSM network. The status of the technology can be monitored and logical outputs can be changed at any time by sending SMS to the module. Some events detected by SPADC3 may cause immediate sending of SMS message (i. e.: opening doors, outage of power supply or change of signal at monitored inputs ...).

SMS contents (texts appearing on mobile phone display) can be configured by user after running configuration program on PC (Winows 95+ or Windows NT+) while the module is connected using programming cable.

The module is equipped with 8 galvanic separated galvanic inputs, 4 non separated logical outputs (for relay connection), 7 analogue inputs and one input for counting fast pulses.

Device is supplied in plastic box for installation at DIN rail. The module contains complete electronics of backup power supply, only the transformer 12-15 V and 12 V backup battery are required.

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BLOCK DIAGRAM

