



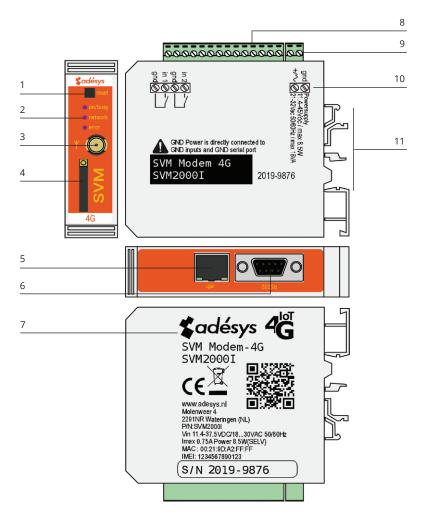
Quickstart SV-line



Please consider the environment before printing

A0500.0026 | Version 01-2022





Description						
1	Reset button	\$adésys reset				
2	LED status indicator: on/busy, network, error	• network				
3	Antenna connection type SMA female	Y				
4	SIM card holder					
5	Ethernet connection	u ₁₉				
6	Serialae interface RS-232, 9 pole D-sub connection (not applicable for SVA and SVL)	O TEZSS				
7	Information sticker	\$adésys 4				
8	Input/output connection terminals	000000000				
9	Supply voltage connection terminals	\$ 9				
10	Connection sticker	gnd Powersupply 11.4-45Vdc i max 8.5W +/^2 21-32Vac 50/60Hz i max 18				
11	DIN-rail mounting clamp					

LED funct	tionality				
Number of flashes for error (red)					
1x	Problem with GSM module				
2x	No SIM card detected				
3x	Incorrect pin code				
4x	PUK code necessary				
5x	Power failure				
6x	No SMS central number / no antenna level				
7x	No telephone number coupled to input / 2G/4G connection cannot be established / Ethernet error				
8x	Connection to external server cannot be established				
Number o	of flashes for network (orange)				
off	No antenna				
constant	Connected to external server				
1x	Antenna level 1% <> 20%				
2x	Antenna level 21% < > 40%				
3x	Antenna level 41% < > 60%				
4x	Antenna level 61% < > 80%				
5x	Antenna level 81% < > 100%				
1x long	In case of modem emulation, ring signal				
faster	Estabilishing connection (clientmode)				
Number o	of flashes for on/busy (green)				
off	SV is switched off				
constant	SV is switched on				
faster	Staring up / sending message				
1x	Input 1 active				
2x	Input 2 active				
3x	Input 3 active				
4x	Input 4 active				
5x	Input 5 active				
6x	Input 6 active				
7x	Input 7 active				
8x	Input 8 active				

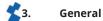
2.

Technical specifications

z. reclinical specifications						
System properties						
SVX0000-I	_		114/-1-1-	lana a de c		
41111		e: a larm dialler ober of digital i		modem		
	— Nun	ber of GPIO ir	iputs (analogi	ue)		
4	Nun	nber of PT100 i	nnuts	-,		
4	Nun	ber of Relay o	utputs			
		variant R=30	3 variant			
Input/output option	ch SV model)		No.			
Digital contact input	(NO/NC)			4 - 8		
Pulse counter				4 - 8		
	(5 24VDC)			4 - 8		
Digital voltage input				-		
Analogue voltage inp	ut (0 - 10VDC)			4 - 8		
Analogue current inp	ut (0 - 20mA)			4 - 8		
PT100 input (80 - 157	'Ω)			0 - 4		
Open collector outpu				4 - 8		
· · · · · · · · · · · · · · · · · · ·				_		
Relay output				0 - 2		
Hardware		4201 4G	4211 4G	4200 3G		
Type I/O		SVA4002-I SVL0400-I SVL0402-I SVL0800-I	SVA2000-I SVA8000-I SVM0000-I SVM2000-I SVM8000-I	SVL0040-R SVL0022-R SVL0420-R		
Digital contact input max. contactresistan max. Vin _{low}		0 - 8 1kΩ 1V	0 - 8 1kΩ 0.4V	0 - 8 1kΩ 1V		
Pulse counter		0 - 8	-	0 - 8		
Filter (pulse duration	Tmin)					
 fast average slow max. contactresistan max. Vin on pulse levels 	1.2 - 20ms 20 - 100ms > 100ms 1kΩ 1V		1.2 - 20ms 20 - 100ms > 100ms 1kΩ 1V			
 Vmin_{high} Vmax_{low} Vmax_{level} 		2V 1.5V 30V		2V 1.5V 30V		
Digital voltage input (5 - 24VDC) Abs. Vmax level Vnom _{max}		4 - 8 30V 24V 2.0V 1.5V	4 - 8 30V 24V 2.5V 2.0V	4 - 8 30V 24V 2.0V 1.5V		
Vmax _{laag} Analogue voltage input (0 - 10VDC) Range Abs. Vmax level Vmax _{nom}		4 - 8 0 - 10VDC 30V 24V	-	4 - 8 0 - 10VDC 30V 24V		
Analogue current input (0 - 20mA) Range Input power limited (in case up to max 30V at input during current mode mode)		4 - 8 4 - 20mA ca. 240mA for 10ms, than 500ms out	-	4 - 8 4 - 20mA ca. 240mA for 10ms, than 500ms out		
PT100 input (80 - 1570 2 wire 3 wire Range	-	-	4 2 -50°C +150°C			
Vin _{max}				30V		
Open Collector (OC) output Swithchable voltage level Imax per output Outputs are protected against overload. Detection / disconnection		4 SELV 45mA	-	4 SELV 45mA		
mechanism per 4 outputs arranged: short-circuit current		1 - 4 5 - 8 < 600mA during <500us		1 - 4 5 - 8 < 600mA during <500us		
Relay output Relay modes (P/NO/NC) Imax per output Switchable voltage level		0 - 2 1A SELV 30VDC/1A	-	0 - 2 1A SELV 30VDC/1A		
Life expectancy		(resistive) 1 x 10 ⁵ operations at 20°C, 1 Hz		(resistive) 1 x 10 ⁵ operations at 20°C, 1 Hz		
Ethernet	Type	10Base-T/ 1	00Base-TX			
	Auto MDIX	Yes				
Mobile network 4G: GSM/GPF EDGE/ LTE Cat-M1		Global-Band FDD-LTE B1/B2/B3/B4/B5/B8/B12/B13/B17/ B18/B19/B20/B25/B26/B28/B39 (B39 CAT-M1 only) GSM/GPRS/EDGE 850/900/1800/1900 MHz (Quadband)				
	3G: GSM/GPRS EDGE/UMTS	/ GSM/GPRS/ 1900 MHz (C UMTS/HSPA	GSM/GPRS/EDGE 850/900/1800/ 1900 MHz (Quadband) UMTS/HSPA+ 800/850/900/1900/ 2100 MHz (Pentaband)			
Antenna		Connector t	Connector type SMA female			

Antenna connection

	1						
Power supply	Nominal	1-2 Watt (2W whilst the supercap is charging)					
	Peak	8.5 Watt / 18VA (AC)					
	Imax	0.75A @ Vin = 11.4V					
	Power supply range	15 - 35VDC (SELV) 20 - 30VAC (SELV)					
	Built-in emergency power supply	Supercap (loaded after a few minutes) so that a power failure can still be reported					
Service life (Calculated MTBF)	88167 hours (=10 years), according to component- counting method						
Enclosure and oper	Enclosure and operating conditions						
Enclosure	DIN-rail (TS35) montage; behuizing brandvertragend UL94-V0						
Dimmensions (WxHxD)	23 x 95 x 102 (mm)						
Weight	125gr						
Operating temperature	-20°C +50°C						
Air humidity	20% - 85% (not condensed)						
IP code	IP10						
Maximum heigth	Up to 2000 metres (above 2000 metres the maximum operating temperature is reduced by 1.5°C per 300 metres up to a maximum heigth of 4000 metres)						
Regulations							
EMC	Emission: EN 301 489-01 V1.9.2 & EN 301 489-03 V1.4.1 (Class B) Immunity: EN 301 489-01 V1.9.2 & EN 301 489-03 V1.4.1(Class A)						
Safety (CE)	EN 60950-1 (2006) + A11 (2009) + A1 (2010) + A12 (2011) + AC(2011) + A2 (2013)						
Alert functions							
Number of dialing numbers	3 call lists, each containing 8 dialing numbers per list, maximum of 20 digits per dialing number						
Notifications	SMS message or text message over IP network						



3.1. Overview SV-product line

SVA alarm dialler

Industrial 4G sms/e-mail alarm dialler for monitoring of your technical processes.

- Digital contacts
- · Alerting with acceptance time
- Status overview via Checkmyprocess.com
- Remote management with Checkmyprocess.com



SVL Weblogger

Industrial 4G Weblogger for sending alerts in relation to limit values being exceeded.

- General Purpose Input Output
- History (logging) and status overview with Checkmyprocess.com
- Remonte management with Checkmyprocess.com



SVM 4G modem

Industrial 4G modem/SMS alarm dialler for connection to applications in the field.

- Digital contacts
- Connecting PLC via ethernet or RS232



SVM-X56 4G modem

Industrial 4G modem/SMS alarm dialler for remote access to Priva building management systems.

- Digital contacts
- Connecting Priva installation via internet



3.2. Safety criteria

Before using the SV, there are several criteria that the user should meet.

- The SV should be installed in a controlled environment (for reasons of fire prevention).
- The SV should be supplied with power using a SELV-type power supply.
- External Ethernet should not be connected directly to an SV, but should be connected via an overvoltage protection device.
- To reduce the probability of damage to the equipment, the SV should be placed in an environment protected against electrostatic discharge (ESD).
- The SV is intended for use as a modem or alarm dialer. The SV is not intended for use as part of a critical safety system in a critical proces
- · Do not use a prepaid SIM card

3.3. Environment



This product contains materials that can harm the environment. For the sake of the environment, if the product has to be replaced at the end of its service life please do not dispose of it through the household waste. Please return the device to your supplier or hand it over to a designated depot.

3.4. Warranty and repair

Adésys performs a series of extensive tests on each SVM before dispatch. Adésys uses a warranty period of 1 year.

Warranty claims are invalidated if:

- the defect is caused by gross negligence or inexpert installation
- the device has been opened and/or repairs or modifications have been performed without the permission of Adésys
- it is found that the serial number has been removed or damaged.

Please get in touch with Adésys customer service if you have any questions regarding the warranty or repairs.

3.5. Liability

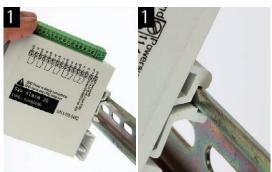
Adésys accepts no liability for consequential loss in the event of the stagnation of the alarm. An alarm dialler does not provide a 100% guarantee against damage, it is merely a tool to prevent damage. You should therefore discuss the remaining risk with your insurer.

4. Connection

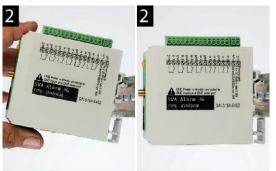
To connect the SV correctly, we recommend using exclusively Camden CTB922HE/# type connectors.

4.1. Positioning, affixing and removal: DIN rail

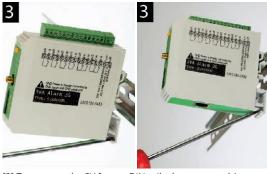
The SV should be affixed to a DIN rail before connection:



[1] Put the SVA onto the DIN rail at an angle. It is important that the SVA's DIN rail clip is positioned on the top of the DIN rail.



[2] Tilt the SV to clip it into place. Then check wether it is securely seated.



[3] To remove the SV from a DIN rail, place a screwdriver on the bottom of the DIN rail clip. Then use it as a lever. After approx. 3 mm the SVM can be tilted to release it from the DIN rail.

4.2.

The SIM card format that has to be placed in the sled is the mini SIM card format. Only insert the SIM card when the device is off.

4.3. Antenna

Connect the antenna cable to the SVM's antenna connection. The antenna should be affixed to as high a point as possible to obtain the best possible range.

4.4. **Power supply**

Connect the SVM to a DC power supply of 15 to 35VDC (at least 8.5 W) or a transformer of 20 to 30VAC. The power supply input of the SVM is not galvanically isolated from the other connections. The GND connection of the power supply connector is directly connected internally to the GND connection of the input connector and the COM port.

4.5. Reset key

The reset key has four functions: first of all, it is used to interrupt the alarm. Pressing this briefly ends the current notification; the SMS messages that have not yet been sent are not sent.

A second function of the reset key is to restart the dialer. The dialer can be restarted by holding this key down for a period of 8 seconds. This only occurs if a power supply is connected.

If no power supply is connected, the reset key functions as an off button. Holding the key down for a period of 8 seconds switches off the dialer.

The fourth functionality is for when there is something wrong and there seem to be no connection. By pushing the reset key for a duration of 3 seconds, releasing it 3 seconds and doing this 3 times the DHCP will be enabled. This ensures that the detector can be accessed again via Ethernet.



Setting of the SV-product line

SV-prog

Setting up the SVA can be done in two ways, the fully adjustable way of the SV-prog tool and a limited adjustable way via Remote Setup. The SV-prog program can be downloaded for free from the Adésys website (www.adesys.nl).

As soon as the SV has been switched on, the tool will display this in the overview after a few seconds and the SVA can be configured by clicking it. When search diallers is pressed, SV-prog shows all accessible diallers.

5.2. Checkmyproces.com

For the use of the limited adjustability via Checkmyproces.com it is important that the following values are added to the firewall as an exception.

Data connection

url: http://svx.meetcentrale.nl:80/severa

protocol: http port: 80

System settings

url: mgtt.meetcentrale.nl

protocol: matt port: 1883

For the exact operation of Checkmyproces.com you can consult the manual.



Accessories



Ethernet cable Length: 1 metre Type: Cat 5E 100 MHz



SV-61: Adapter plub Type: Sub-D9-RJ45

(only enclosed with SVM-X56)



Quickstart

Installation manual in:

- Englisch (EN)
- Dutch (NL)
- German (DE)
- French (FR)





Molenweer 4 2291 NR Wateringen The Netherlands

Available in our SV-product line

- SVA alarm dialler
- SVL Weblogger
- SVM 4G modem
- SVM-X56 Priva special
- Our specials: customized solutions

Visit the various product pages on the website for more information about these products.

Complete manual available on website





