Severa

RELY ON COMMUNICATION

Industrial modems and alarms for the landline network, GSM and GPRS

Severa modems enable you to monitor and manage machines and installations remotely. This is achieved via a fixed, analogue telephone connection (PSTN), the GSM network or GPRS. SMS messages are used to report malfunctions while with the GPRS versions your applications are wirelessly connected to the Internet and so are on-line themselves. This provides you with continuous monitoring of your installation's status that enables you to take action any time.

Severa alarm modems PSTN, GSM and *Steady Connect* GPRS

- **8 inputs maximum**

- **Contact, voltage and current inputs**

- **SMS alarms**

- **Extremely compact housing**

- **Communication via RS-232**

- **Interfacing with SCADA systems**

- **Installations can be switched and reset remotely**

- **Battery backup (optional)**

Severa *Webmeter*

- **Sends measured values via the Internet for visualisation on the website**

- **Built-in data logger**

The Severa concept

Adesys' Severa series is a product line that consists of industrial modems and alarms in a variety of configurations, for use in combination with the landline network, GSM and GPRS. The GPRS versions have specifications that comply with the requirements for wireless Internet communication and *offer additional, advanced options*.

Usability

The Severa concept has the combination of its very modest dimensions and exceptionally comprehensive and flexible functionality to thank for its success. The different Severa versions also offer advanced SMS alarms, management and operation from remote, wireless PLCs and *online visualisation* of the status of installations and processes *in locations where there is no landline network or DSL connection available*. The Severa concept is fully compatible with the alarm procedures used via an ARA-pro service group.

Inputs

A Severa can have a total of eight inputs, which makes it possible to have *a combination of contact, voltage and current inputs* and there is also an RS-232 port available. The *SevProg* software program makes setting up the Severa very easy indeed.

Client specific

Thanks to our years of experience in the field of alarm dialers and modem communications there are standard Severa versions available for a lot of applications. However, the Severa offers the capacity to cater for client specific functions and *Adesys' expertise guarantees problem-free implementation of alternative applications*. Adesys is a Dutch company that has its own research and development department and this makes the lines to product support and the team responsible for implementing specific applications very short.

Alarm dialer

The Severa as an alarm dialer

When a contact input is activated or when a voltage or current input exceeds a pre-set value, the Severa will send an SMS message if this is required.

• Programmable alarm delay
• Reset reports
• Eight telephone numbers per input
• Operate and reset local installations via the contact outputs (GSM and GPRS versions)
• Optional emergency power supply so that power supply failures can also be reported while the alarm dialer still functions normally.

Dial-up

The Severa as a dial-up-modem

With the Severa a connection can be made via the contacts, it can use standard AT commands and it forms a perfect combination with PLCs. The Severa is robust and has more than proved itself in countless industrial locations.

• Communication via RS-232
• Implementing client specific AT commands
• Simple to set up in existing installations.

Steady Connect

The Severa and GPRS communication

When a PLC doesn't have the option of using the IP protocol but an Internet connection is still required, the Severa Steady Connect offers the possibility of having the local installation communicate with a central application such as a SCADA system via GPRS.

- Converting the GPRS data into communication via RS-232
- Monitoring the data flow and automatically re-establishing the connection when Internet communication is lost (Auto Log-on)
- Backup alarms via SMS when communication via GPRS is lost.

The SevProg software makes programming the Severa child's play.

Webmeter

The Severa as a web meter

The Severa Webmeter is a clever, efficient way of visualising measured values and statuses on Internet pages either on the Internet or an intranet. The Webmeter sends the status and values of the inputs via GPRS in a format that can be immediately converted to a curve or column diagram for a web page.

- Measured value inputs: 0-10V/0-20mA
- Interval can be set per input
- Activation occurs when the status of one of the inputs changes
- Data logger that prevents data loss if there is no Internet connection temporarily
- Stand-alone use, collects data without PLC
- The contact outputs can be used for switching local installations via the Internet

For web programmers

The Webmeter sends information in the form of HTTP POST data. This data can be embedded in Internet pages using PHP, ASP or Java for example.

Features of Severa modems, alarm dialers and Webmeters

		PSTN		GSM		GPRS		
						Steady Connect		Webmeter
		modem	alarm dialer	modem	alarm dialer	modem	alarm dialer	webmeter
Data communication								
Baud rate		56Kbps	56Kbps	9,6Kbps	9,6Kbps	-	-	
IP connection		-	-	-	-	yes	yes	yes
Automatic network login		-	-	yes	yes	yes	yes	yes
Client/server mode		-	-	-	-	yes/yes	yes/yes	client
Operation with standard AT commands		yes	yes	yes	yes	yes	yes	no
Data format 7E1, 7O1, 8N1		yes	yes	yes	yes	yes	yes	no
HTTP POST messages		-	-	-	-	no	no	yes
Alarm notification								
Contact		no	yes	no	yes	no	yes	yes
When exceeding pre-set values (voltage and/or current)		no	yes	no	yes	no	no	yes
Programmable alarm delay		no	yes	no	yes	no	yes	yes
8 call numbers per input		no	yes	no	yes	no	yes	yes
Uses SMS message/client specific protocol		no	yes/option	no	yes/option	no	yes/option	yes/no
Reset report following alarm cancellation		no	yes	no	yes	no	yes	yes
Confirmation of receipt of alarms		no	option	no	yes	no	yes	no
Alarm if there is a power supply failure		no	option	no	option	no	option	option
Inputs and outputs								
Dry contact (NC, NO)		no	0, 2 of 8	no	0, 2 of 8	no	0, 2 of 8	0, 4 of 8
Analog	Voltage 0-10V	no	0 of 4	no	0 of 4	no	no	0, 2, 4 of 8
	Current 0-20mA	no	0 of 4	no	0 of 4	no	no	0, 2, 4 of 8
Relay outputs (2 x, remotely switchable)		no	no	no	yes	no	yes	yes
RS-232		yes	yes	yes	yes	yes	yes	yes
Built-in data logger		no	option	no	option	no	option	yes
Programming								
Via SevProg software (PC)		yes						
Via COM port (RS-232)		yes						
Power								
Power supply: 15-28V ac/8-35V dc		yes						
Power consumption @ 15/12V ac/dc, at rest/max.		30/100mA		30/270mA		30/270mA		
Power consumption @ 24V ac/dc, at rest/max.		20/60mA		20/150mA		20/150mA		
Battery backup (NiMH)		no	option	no	option	no	option	option
Miscellaneous								
Connection using push-in connectors		yes						
COM port (RS-232) via RJ-10 and 9 pin D sub-connector		yes						
LED indication concerning network availability		yes						
Environmental limits (electronics/NiMH battery)		-20 tot +55°C/-5 tot +55°C						
Dimensions (DxHxW) DIN rail housing		23x95x104mm						

NB: The specifications given are subject to change. No rights can be derived. Contact Adesys for more information about product variations.