adesys

RELY ON COMMUNICATION

Modalarm-IP

Industrial, modular modems and alarm dialers

The Modalarm-IP combines alarm reporting, data communication and telemetry in one concept. The product is modular, scalable and easy to program with Java which means that the Modalarm-IP fits in with a large number of different technical applications excellently.

- **Telemetry via (mobile) internet, telephone line or radio connections**
- **Alarm reports via the internet, telephone lines, Voice Over IP and gsm/gprs**
- **Remote line monitoring and set-up via internet**

- **Ideal for controlling and monitoring pump installations**
- **Monitoring and communicating with machines and processes**
- **Alarm messages as voice messages, sms, e-mail and pager messages**

Concept Modalarm-IP

Applications

The Modalarm-IP can be used as:

- Telemetry system for measuring and switching remotely
- Alarm dialer with speech, sms, pager and e-mail messages
- Dial modem with At and MT control
- Radio modem for wireless communication up to 2km
- Programmable control system (Java VM)

Scalable system

The Modalarm-IP is mounted on a DIN rail and is scalable in width. The basic module has 4 inputs and 2 outputs and can be extended with input and output modules. Their function is easy to set up.

Inputs:

- Digital alarm or status inputs
- Analogue inputs for measuring or threshold value monitoring

Outputs:

- Switchable by telephone
- Switchable via modem
- Switchable via internet
- Analogue output for following measured values

Ready for the future

The telephone network is changing. In due course all telephone connections will be converted to internet telephony and the traditional analogue telephone networks and ISDN will become redundant. Modem traffic will make way for internet traffic.

The Modalarm-IP can communicate via:

- Analogue telephone networks or VoIP
- Internet
- GSM / GPRS
- Licence-free radio connections

In order to increase the reliability of communications a number of networks can be combined in one system such as fixed and mobile internet for example. Linking the system via the internet to the Adesys Control Centre (ACC) means that the connections can be monitored (line monitoring) and this also makes it possible to change settings remotely.

Made-to-measure for your application

The Modalarm-IP is easy to program in Java VM. Combined with the scalable I/O the system fits into your application without any problems. **This is how process control, alarms and data communication are combined in one system.** Adesys can take care of the programming for you, but you can also do it yourself. The programming tools can be downloaded free from www.adesys.nl.

Hardware

Basic module	
Number of inputs	4 contact / 0-20V / 0-20mA
Number of outputs	2; relay, change-over contact
Communication interface	TCP-IP / USB
Emergency power supply	optional
Analogue PSTN or VoIP interface	
Connection	RJ11
GSM/GPRS interface	
Baud rate	up: max. 42.8 kbps / down: max. 64.2 kbps
SIM card type	GSM / 3G
Transmitter type	Quad band
Antenna connection	SMA female
Capacity	3W peak
I/O module 1	
Number of inputs	6
Input type	contact or analogue 0-10V / 0-20mA (no galv. isolation)
Resolution	10 bits
Number of analogue outputs	2
Output voltage range	0-10V
I/O module 2	
Number of inputs	4
Input type	contact
Number of outputs	4
Output type	relay (2 x change-over and 2 x n.o. contact)
Max. current/voltage	2A / 48V

IP-Prog shows all the alarms in the network. The status is visible for every alarm and the settings can be adjusted.

Software

General	
Adjustable with IP prog (speech via PC microphone)	
Adjustable with browser	
At least 1 software module required	
Software module alarms	
Alarm and reset reports as speech/SMS/pager/e-mail messages	
Comprehensive reset procedure	
Automatic repeat	
Reports to ARA-pro alarm server	
Reset during reporting or by call-back via voice response system	
Day, night, weekend program with alternative numbers	
Alarm report if the voltage supply fails (optional)	
Switch outputs remotely	
Alarms via PSTN, GSM, IP (fixed and mobile)	
Telemetry software module	
Processing/controlling hardware I/O including	Switching remotely with feedback
	Following analogue measured values remotely
	Pulse counter / counting operating hours
Virtual inputs and outputs	
Java VM programming platform	
Send http post measured values	
Link with ACC Dispatch server	
Network telemetry	Modalarm-IP <-> Modalarm-IP
	Modalarm-IP <-> SCADA
Protocols	SOAP, XML, alternatives on request

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

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