# **SVAN 977**

## Advanced alarms

SVANTEK Sp. z o.o. WARSAW, December 2014

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### **DESCRIPTION OF ADVANCED ALARMS IN SVAN 977**

#### **1. GENERAL INFORMATION**

The advanced alarm functionality of the SVAN 977 allows for alarms to be triggered in the course of taking measurements alerting different users depending on the time and the day. These alarms can be triggered by different parameters such as LEQ or the so-called sliding LEQ (moving LEQ window over a time axis). The alarm functionality is available with the SvanPC++ Remote Communication module and it can automatically send e-mails, or SMS text messages as well as record audio.

#### 2. CONFIGURATION

The first step is to activate the Remote Communication module. Please ask your distributor for the activation code. To enter the code, you should go to Help/Enter Activation Keys and paste it into the window pictured below.

Enter Activation Key	3	x
OK. Cancel		
<u></u>		

When the RC module has been activated you should open the Remote Communication Center. You can find it in the SVAN section. The window is shown below.

Connection type	US	B				<b>~</b>	Station configuration
Address	Unit	AFD	CLD	LR	RS	Status	·
N/A	SVAN 977 #36170	Off	Off	Off	Off	Stopped	SVAN Files
							Automatic files download
							Live results preview
							Remote session
							Continuous logger download
						Select all	Alarms

The alarm settings are available in the Station configuration window and can be accessed by clicking on the Advanced Alarm Configuration button (the 'Use advanced alarm configuration' option needs to be selected):

SVAN 977 #36170	Alarm configuration						
<ul> <li>Measurement setup</li> <li>Channels</li> </ul>	SMS configuration	SMS configuration			E-mail configuration Skip e-mail configuration		
Logger			-	Se	nd Email []		
External I/O	Send Mode Lis	st	+	SM	TP Server	smtp.mail.com	
Remote communication	Number #1			1	Jsername 🗌	default	
Alarm settings	Number #2			1	Password 📃	******	
	Text	defau	it	Sender's	s Address		
				Recipient's	s Address		
					Subject		
					Message		
	Skip alarm configur	ration	fouration				
	Arti	ive level	Low		Send SM	s [***]	
	1.1.1.1	-	150(4)		Cond o mo		
		Source [	LEQ(1)		Schole Hild	· · · · · · · · · · · · · · · · · · ·	
	Sour	rce type	Current	*			
	Le	evel[dB]	100.0	A. 	Advan	ced Alarm Configuration	

Clicking on the Advanced Alarm Configuration opens a window where the user can define conditions and events.

To create a new condition click 'Add'.

Advanced Alarm C	Configuration	X
Conditions Eve	ents	Export Import
Name	Туре	
-		
-		
-		
-		
-		
	•	
ii Ic	Add	
Save	Duplicate Remove	
ОК		Cancel

A condition enables easier management of various conditions. Two types of conditions are available: threshold or time.

Condition name	Condition
Condition type	Threshold
	Threshold

A threshold condition is based on 1s measurement values such as LEQ, PEAK, MAX, MIN and sliding LEQ for windows of 15 or 60 minutes for the selected Profile. Two modes are available: Level+ and Level-. The threshold value defines the moment of the start or end of the Condition. Additionally the user can set the minimum duration time, which delays the start/end of the Condition.

Advanced Alarm (	Configuration		
Conditions Event	s]		Export Import
Name *Condition	Type Threshold	Condition name Condition	
		Condition start: 80 dB	Condition stop: 65 dB
		80 dB	
		65 dB	MMM
		Start minimum duration 00:00:05	Stop minimum duration
Save D	Add Remove	Source     LEQ     Condition start     Condition       Profile     1     Threshold     80 dB <	n stop d 65 dB ♀ ation ss) ♥ 00:00:02 ♀
ОК			Cancel

The period of time when the Condition is met is marked in grey on a graph.

The Condition Time allows for the time and days when the monitoring is performed to be defined:

Advanced Alarm Config	guration						
Conditions Events						Export	Import
Name Tr 80 db - 65 dB Th 75 dB - 70 dB Th Mon-Fri; 8-16 Tir Mon-Fri; 16-24 Tir Add Save Duplicat	ype reshold reshold ne me e Remove	Condition name Hours Start time ( Stop time (	Mon-Fri; 16-24	16:00	Weekdays Monday Tuesday Wendesday Thursday Friday Saturday Sunday		
ОК							Cancel

The next step after defining the conditions is to create Events. Events can be based on single or multiple conditions, and a combination of Threshold and Time conditions. For each event a different type of action can be set: marker, audio, external I/O, SMS text message, or e-mail.

onditions Events						Export Import
Name V Mr. Smith	Trigger ('80 db - 65 dB' A	Event name	Ms. Jones	Active		
🗸 *Ms. Jones	('75 dB - 70 dB' A	Event trigger				
		('75 dB - 70 dB'	AND 'Mon-Fri; 16-24')			
			Add	Remove	last condition	Clear all conditions
	Ac	tion type Marke Marke Audio Extern SMS E-mail	r r nal I/O			
Saug	Add	Ac	ld Remove			

#### NOTES:

- To configure Audio recordings the additional option SV 977\_15 must be enabled in the instrument.
- To configure SMStext messaging requires a GPRS modem to be connected with an active SIM card.
- To comfigure e-mail alerts requires a GPRS modem to be connected with an active SIM card and internet access.

The screen pictured below presents an example of the configuration of a marker action. If Point marker is selected there will be a single event marked in the time history. Otherwise the time history graph will show a block marker between the start of the event and its end. After each event is created the 'Save' button must be pressed.

Conditions Events					Export Import	
Name         Trigger           ✓ Mr. Smith         ('80 db - 65 dB' A           ✓ *Ms. Jones         ('75 dB - 70 dB' A	Event name     Ms. Jones     Active       Event trigger       ('75 dB - 70 dB' AND 'Mon-Fri; 16-24')					
		Add	Remove last c	condition	Clear all conditions	
	Type ✓ *Marker ✓ Audio ✓ External I/O ✓ SMS ✓ E-mail	Action Type: Marker Point marker	Active			
K M	Add	Add Save Remove				
Save Dup	Add	Add Save Remove				

The screen pictured below presents an example of the configuration of an audio action. The pretrigger option allows samples to be recorded before an event starts. The duration of pretrigger depends on current sampling settings within the audio settings of SVAN 977.

Max. duration will limit the duration of the event and Min. break represents the minimum time between two consecutive events required before the next action can start.

Advanced Alarm C	onfiguration						
Conditions Events			Export Import				
Name ✓ Mr. Smith ✓ *Ms. Jones	Trigger ('80 db - 65 dB' A ('75 dB - 70 dB' A	Event name Ms. Jones Active Event trigger ('75 dB - 70 dB' AND 'Mon-Fri; 16-24')					
		Add	Remove last condition Clear all conditions				
		Type ✓ Marker ✓ Audio ✓ External I/O ✓ SMS ✓ E-mail	Action Type: Audio Active Pre trigger 1s Max. duration (hh:mm:ss) Min. break (hh:mm:ss) 01:00:00 \$				
Save Du	Add	Add Save Remove	Caprel				

The screen pictured below presents an example of the configuration of an External I/O action. Max. duration will limit the duration of the event and Min. break represents the minimum time between two consecutive events required before the next action can start.

Conditions Events	onfiguration			Export Import				
Name         Trigger           ✓ Mr. Smith         ('80 db - 65 dB' A,           ✓ *Ms. Jones         ('75 dB - 70 dB' A,	Event name     Ms. Jones     Active       Event trigger       ('75 dB - 70 dB' AND 'Mon-Fri; 16-24')							
		Add Event actions Type  Marker Audio Event alignment	Add Remove last condition Clear all co ons Action ar Type: External I/O Active If Max. duration (hh:mm:ss) 00:01:30 🗘					
		✓ SMS ✓ E-mail	☑ Min. break (hh:mm:ss)	:00:00 💲				
Save Du	Add	Add Save Remove		Cancel				

The screen pictured below presents an example of the configuration of an SMS text message action. It is possible to set a number of people (separated by semicolons) to receive the message as well as its content. Each message can be sent either at the start of the event or at its end. Additionally, a delay before the SMS text message is sent can be specified. Min. break represents the minimum time between two consecutive events required before the next action can start.

Ivanced Alarm Co Conditions Events	nfiguration						Export Import	
Name Mr. Smith Mr. Jones	Trigger ('80 db - 65 dB' A ('75 dB - 70 dB' A	Event name Event trigger	Ms. Jones		Active			
	('75 dB - 70 dB' 4	AND 'Mon-Fri; 16-:	24')					
			Add		Remove k	ast condition	Clear all conditions	
		Event actions		Action				
		✓ Marker		Type: SMS 🗹 Active				
		🗸 Audio		Recipient number(s)*		123456789		
		External I/O     *SMS		Message C		Check this out!		
		✓ E-mail     Send SMS at					00:00:12 🗘	
<				Min. br	eak (hh:mm:s	s)	00:00:00 🗘	
A Save Dup	Add	Ado	Remove	* you can	enter multiple	recipients by separati	ng each by semi-colon (';')	
ок							Cancel	

The screen pictured below presents an example of the configuration of an e-mail action. Similarly to an SMS text message, an e-mail action allows an e-mail address to be entered, a message subject as well as its content. Each e-mail can be sent at the start of an event or at its end. Additionally a delay before the message is sent can be specified. Min. break is a minimum time between two consecutive events required for the next action to start.

onditions Events						Export Import	
Name ✓ Mr. Smith	Trigger ('80 db - 65 dB' A	Event name	Ms. Jones	Active			
✓ *Ms. Jones	('75 dB - 70 dB' A	Event trigger ('75 dB - 70 dB' AND 'Mon-Fri; 16-24')					
		Add Remove last condition		ast condition	Clear all conditions		
		Event actions					
		V Marker	Ту	Type: E-mail			
		✓ Audio     ✓ External I/O     ✓ SMS     ✓ E-mail	Re	Recipient address(es)*	xxx@mail.com		
			Sul	oject	Alarm		
				ssage end e-mail at Event start Event end Send after delay (f	00:00:05 🗘		
Add Save Duplicate Remove		Ac Save	Add Save Remove		00:00:00 C Test g each by semi-colon (',')		

Clicking the 'OK' closes the alarms window and opens 'Station(s) configuration' window:

Station(s) configuration				? 🛛
😑 SVAN 977 #36488		Alarm configuration		
Measurement setup     Remote communication	SMS configuration		E-mail configuration Skip e-mail configuration	
Alarm secongs	e care a Tura		Send Email	
	Send Mode List	×	SMTP Server	smtp.mail.com
	Number #1		Username	default
	Number #2		Password	000000
	Text def	sult	Sender's Address	
			Recipient's Address	
			Subject:	
			Message	
	Skip alarm configuration			
	Use advanced alarm co	onfiguration		
	Active level	Fom	Send SM	5
	Source	LEQ(1)	Send e-ma	
	Source type	Current	×	
	Leve[[dB] 100.0		C Advar	ced Alarm Configuration
Send all settings Close	Cancel Load Setu	p Sav	e Setup	

Click the 'Send all settings' button to activate the configurations in the instrument. SVAN 977 will display the alarm settings and additionally the modes activated can be displayed by pressing Alt+Up / Down:





Any alarms activated will also be displayed in the 'Alarm actions' display.

