Modbus Communication for SVL

Starting with PCB revision 6, SVL control panels support serial Modbus communication via RS232 (Terminals 31-33). This document provides protocol details for Modbus communication with the SVL control panel and applies to SVL software version 1.18.0 and later.

Modbus configuration is performed in the SVL app with the following adjustable parameters:

Parameter	Value
Modbus ID	From 1 to 247 (Default: 200)
Mode	RTU (Default) ASCII
Baud rate	9600 19200 38400 57600 115200 (Default)
Parity	8N2: 8 data bits, no parity, 2 stop bits 8E1: 8 data bits, even parity, 1 stop bit (Default)

NOTE! If comfort function is needed via Modbus, all comfort zones must be configured to Constant Mode in all connected SVL control panels of the installation.

The following commands are supported for control and monitoring:

Read Coils, Function Code 1

Access	Function	Address[1]	Data[2]
Read-only	Fire zone 0 to 60 alarm status	300 to 360	0 = No alarm 1 = Alarm
Read-only	Fire zone 0 to 60 fail status	400 to 460	0 = OK 1 = Fail
Read-only	Fire zone 0 to 60 present	500 to 560	0 = Not present 1 = Present

1 Decimal number
2 Hexadecimal number

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Read Holding Registers, Function Code 3

Access	Function	Address[1]	Data[2]
Read-only	Measured mains voltage in 1/10 V on current SVL, example: $1E4_{16} = 484_{10} = 48.4$ V	49008	
Read-only	Measured battery voltage in 1/10 V on current SVL, example: $220_{16} = 544_{10} = 54.4$ V	49009	
Read-only	Measured temperature in 1/10 °C on current SVL, example: $129_{16} = 297_{10} = 29.7$ °C	49010	
Read-only	Comfort zone 0 to 60 open/close state[3]	49100 to 49160	0 = Closed 1 = Closing 2 = Opening 3 = Open
Read-only	Comfort zone 0 to 60 open/close state[3]	49200 to 49260	0 = Closed 1 = Closing 2 = Opening 3 = Open

Write Single Coil, Function Code 5

Access	Function	Address[1]	Data[2]
Write	Group 1 to 6 service open on current SVL	101 to 106	FF00
Write	Group 1 to 6 alarm reset on current SVL. The reset will affect other groups in same fire zone as the group	101 to 106	0000
Write	Set fire zone 0 to 60 in alarm	300 to 360	FF00
Write	Reset fire zone 0 to 60	300 to 360	0000
Write	Set fire zone 0 to 60 in Fireman's Priority open	600 to 660	FF00
Write	Set fire zone 0 to 60 in Fireman's Priority close	600 to 660	0000

Write Single Coil, Function Code 6

Access	Function	Address[1]	Data[2]
Write	Open comfort zone 0 to 60 for 0 to 360 s	49100 to 49160	0 to 168 s
Write	Close comfort zone 0 to 60 for 0 to 360 s	49200 to 49260	0 to 168 s

3 Return data 1 and 2 is only available from the current SVL. If another SVL control panel of the installation is Closing, Opening, or Open it will return 3.