ALXXX | FLUSH OR SURFACE MOUNT ALARM SIGNALLING UNIT

Modbus register map

MODBUS REGISTER MAP

INPUT REGISTERS

		Data type	Description	Raw data	Values
1	Operation status	unsigned integer	Operation status	0—3	0 = OK (green LED is ON) 1 = Warning (yellow LED is ON) 2 = Alarm (red LED and buzzer* are ON) 3 = Custom (direct LED and buzzer* driving is allowed)
2	Green LED	unsigned integer	Green LED status	0, 1	0 = OFF 1 = ON
3	Yellow LED	unsigned integer	Yellow LED status	0, 1	0 = OFF 1 = ON
4	Red LED	unsigned integer	Red LED status	0, 1	0 = OFF 1 = ON
5	Sound active*	unsigned integer	Buzzer status	0, 1	0 = OFF 1 = ON
6	Sound mode*	unsigned integer	Pulsed / continuous sound mode	0, 1	0 = pulsed 1 = continuous
7—10			Reserved, return 0		

Note: *The input registers can be read via the Modbus command: "Read input registers".*
** Only for ALBFX series.*

HOLDING REGISTERS

		Data type	Description	Raw data	Values	Factory default values
1	Device slave address	unsigned integer	Modbus device address	1—247		1
2	Modbus baud rate	unsigned integer	Modbus communication baud rate	0—6	0 = 4.800 1 = 9.600 2 = 19.200 3 = 38.400 4 = 57.600 5 = 115.200 6 = 230.400	2
3	Modbus parity	unsigned integer	Parity check mode	0—2	0 = 8N1 1 = 8E1 2 = 8O1	1
4	Device type	unsigned integer	Device type, read only	1784—1789	1784 = ALFCF 1785 = ALFCG 1786 = ALFC8 1787 = ALBFF 1788 = ALBFG 1789 = ALBF8	
5	HW version	unsigned integer	Hardware version of the device, read only	XXXX	0x0100 = HW version 1.0	
6	FW version	unsigned integer	Firmware version of the device, read only	XXXX	0x0100 = FW version 1.0	
7—8			Reserved, return 0			
9	Modbus network Bus termination (NBT)	unsigned integer	Set device as end device of the line / or not by connecting NBT	0, 1	0 = NBT disconnected 1 = NBT connected	0
10	Modbus registers reset	unsigned integer	Resets Modbus Holding registers to default values. When finished this register is automatically reset to 0	0, 1	0 = Idle 1 = Reset Modbus registers	0
11	Operating mode	unsigned integer	Operation mode selection	0—3	0 = OK (green LED is ON) 1 = Warning (yellow LED is ON) 2 = Alarm (red LED and buzzer* are ON) 3 = Custom (next 4 registers are allowed)	0
12	Green LED	unsigned integer	Direct green LED control (allowed in Custom operating mode only)	0, 1	0 = OFF 1 = ON	0

HOLDING REGISTERS

		Data type	Description	Raw data	Values	Factory default values
13	Yellow LED	unsigned integer	Direct yellow LED control (allowed in Custom operating mode only)	0, 1	0 = OFF 1 = ON	0
14	Red LED	unsigned integer	Direct red LED control (allowed in Custom operating mode only)	0, 1	0 = OFF 1 = ON	0
15	Buzzer operating mode*	unsigned integer	Buzzer control (allowed in Custom operating mode only)*	0, 1	0 = OFF 1 = ON	0
16	Sound mode*	unsigned integer	Pulsed / continuous sound*	0, 1	0 = Pulsed 1 = Continuous	0
17	Start up action	unsigned integer	Indication on start up	0, 1	0 = No indication 1 = All LEDs on for 1 s	1
18—20		unsigned integer	Reserved, return 0			

Note: *The holding registers can be managed via the following Modbus commands: "Read Holding Registers", "Write Single Register" or "Write Multiple Registers".*
** Only for ALBFX series.*

The free Sentera configuration and monitoring software 3SModbus can be downloaded via: ***https://www.sentera.eu/en/3SMCenter***