

ALFCX

Flush or Surface mount Modbus RTU Alarm unit



ALFCX series are universal programmable alarm units. They can indicate the status of a ventilation system or HVAC installation. The status is indicated via the green, yellow and red LED. It is controlled via Modbus RTU communication. They can be used for inset or surface mounting and are available for 18-34 VDC and 15-24 VAC supply voltage.

Key features

- Green, yellow and red LED for status indication
- Bootloader for updating the firmware via Modbus RTU communication
- Modbus RTU communication

Area of use

- Status indication of a ventilation system via the LED indicators.
- Visual alarm notification

Article codes

Article code	Supply voltage	Maximum power consumption
ALFCF	18–34 VDC	5 mA
ALFCG	18 – 34 VDC/ 15 – 24 VAC ± 10 %	10 mA

Technical specifications

Ambient conditions	Operating temperature	0–50 °C
	Relative humidity	5–90 % rH (non-condensing)
	Storage temperature	-10–60 °C
Protection class	IP 30 (EN 60529)	

Standards

- Low Voltage Directive 2014/35/EU
 - EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529
 - EN 62080:2009 Sound signalling devices for household and similar purposes
- EMC Directive 2014/30/EU:
 - EN 61000-6-1:2007 Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light industrial environments
 - EN 61000-6-3:2007 Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments Amendments A1:2011 and AC:2012 to EN 61000-6-3
- RoHS Directive 2011/65/EU



Modbus registers



The Sensstant Modbus configurator allows you to easily monitor and/or configure Modbus parameters. The parameters of the unit can be monitored / configured through the 3SModbus software platform. You can download it from the following link:
<https://www.sentera.eu/en/3SMCenter>
 For more information about the Modbus registers, please refer to the product Modbus Register Map.



Wiring and connections



Article type	ALFCF	ALFCG
V+	18–34 VDC	18 – 34 VDC / 15 – 24 VAC ± 10 %
V-	Supply voltage, Ground	
A	Modbus RTU (RS485), signal A	
/B	Modbus RTU (RS485), signal /B	
Connections	Spring contact terminal blocks, cable cross section: 0,75 - 2,5 mm ²	
1 -P1 header		Put a jumper between pin 1 and pin 2 for 10 seconds to reset the Modbus communication parameters to their default values (slave address 1, baud rate 19200 Bps, parity even)
		Put a jumper between pin 3 and pin 4 and restart the supply voltage to enter bootloader mode






ALFCX

Flush or Surface mount Modbus RTU Alarm unit

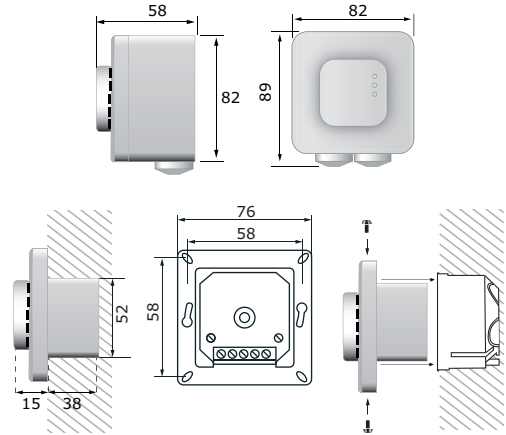


Indications

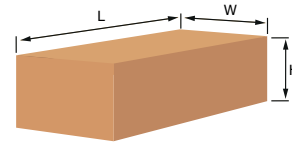


Action	Operating description	LED indicators	Buzzer
During the first second	Start-up	● ● ●	
Write value 0 in Modbus HR11 (0 is the default value)	OK	○ ○ ●	
Write value 1 in Modbus HR11	Warning	○ ● ○	
Write value 2 in Modbus HR11	Alarm	● ○ ○	
Write value 3 in Modbus HR11	Custom mode (according to HR12-14)	○ ○ ○	

Fixing and dimensions



Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
ALFCG ALFCF	Unit (1 pc.)	89	82	58	0.11 kg	0.13 kg
	Carton (10 pcs.)	492	182	84	1.10 kg	1.46 kg
	Box (60 pcs.)	590	380	280	6.60 kg	9.75 kg
	Pallet (1.680 pcs.)	1.200	800	2.140	184.80 kg	289.40 kg

Global trade item numbers (GTIN)

Packaging	ALFCG	ALFCF
Unit	05401003018583	05401003018576
Carton	05401003302873	05401003302866
Box	05401003504208	05401003504192
Pallet	05401003701256	05401003701249