

# Alarm unit FloAlarm K4-M / K12-M

**spectro sys**



4-channel alarm unit FloAlarm K4-M



12-channel alarm unit FloAlarm K12-M

## Product features

- 4- or 12 channel alarm unit with Modbus connection
- For connection of 4 or 12 digital input signals such as contact pressure gauges or pressure switches
- Suitable for transducers according to NAMUR-specification (e.g. inductive sensors)
- All channels are individually programmable as normally closed or normally open contact
- Delay mode (1 sec.) is integrated for all channels
- Potential-free output as normally closed or normally open
- Visible alarm (diodes integrated in keypad)
- Acoustic alarm (integrated piezo-buzzer)
- Plastic housing for wall mounting

## Technical data

### Housing

Protection class: IP65  
Dimensions: 200 x 120 x 60 mm

### Compatibility inputs:

- mechanical switches
- electr. switches PNP/NPN (DC only)
- inductive switches type NAMUR

### Potential free output

max. switchable voltage: 24 V AC  
max. switchable load: 1 A  
configurable as: NO / NC

### Power supply voltage:

110-230 V AC / 50-60 Hz  
max. power input: 5 W  
Fuse: 230 V / 0,1 A and 110 V / 0,25 A

### NAMUR-specification

Voltage: 5 V DC - 25 V DC  
Power input inactive:  $I_L < 1 \text{ mA}$   
Power input activated:  $3 \text{ mA} < I_L < 15 \text{ mA}$

### Communication parameters

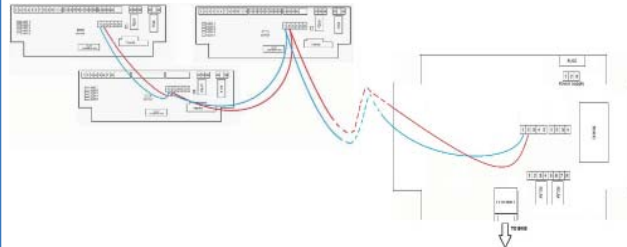
Baud rate: 9600  
Polarity: 2 bit stop 8N  
Function code: 0x03 Read Holding

# Alarm unit FloMaster

spectro sys



FloMaster



Connection of FloMaster and FloAlarm units

## Product features

- The FloMaster unit connects and monitors up to 30 FloAlarm units K4-M or K12-M with Modbus connection.
- All digital inputs of each FloAlarm can be individually configured in all parameters as name, LED, visual signal, sound signal, alarm delay and repeating alarm.
- Easy configuration using the integrated touch screen display
- History of 108 alarm events; memorizing
  - date and time
  - type
  - date and time of the deactivation of the alarm
- The FloMaster is also designed to be integrated into a BMS (Building Management System) using an RJ45 Ethernet cable with Modbus TCP/IP protocol.
- Plastic housing for wall mounting

## Technical data

### **Housing**

Protection class:	IP65
Dimensions:	240 x 160 x 90 mm

### **2 relay outputs**

max. switchable voltage:	24 V AC
max. switchable load:	1 A

### **Power supply voltage:**

max. power input:	110-230 V AC / 50-60 Hz
Fuse:	5 W
	230 V / 1 A and
	110 V / 2 A

### **Communication parameters**

Baud rate:	9600
Polarity:	2 bit stop 8N
Function code:	0x03 Read Holding
Ethernet Modbus:	TCP/IP

## Applications in explosive environment

The unit FloMaster must be mounted outside of explosive environment. Transducers, which are installed inside hazardous areas, have to be activated by an ATEX-approved switch amplifier. This amplifier also has to be mounted outside of the explosive environment. The output contact of the switch amplifier can easily be connected to the FloAlarm units.

## Article numbers:

FloMaster:	66QE0016
FloAlarm K4-M:	66QE0014
FloAlarm K12-M:	66QE0015

## Accessories:

2-channel-switch amplifier:	77051465
Wall mounting box for switch amplifier:	77051466