

# M4200 Alarm Monitor

- Compact unit for flush mounting
- Programmable LED colour change (red, green or yellow)
- Special indication of the first alarm
- 8 input channels supporting normally open or normally closed contacts
- Individually LED indication of each of the 8 inputs
- Individually time delay on all channels
- 2 individually blocking modes for easy service
- Special indication of cable break or short circuit
- PC based programming via RS232
- 1 common output relay for siren
- 2 programmable output relays
- 3 programmable "Open Collector" outputs
- DC or AC supply voltage

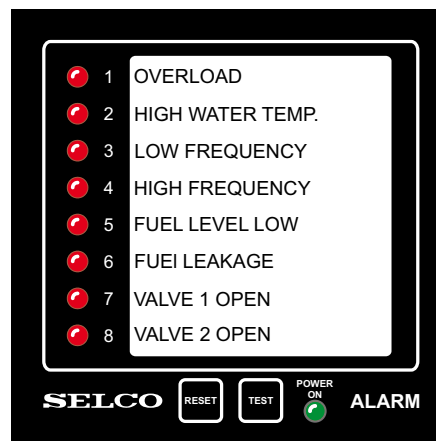


Figure 1. Front of M4200

## Application

The M4200 Alarm Monitor provides a cost effective solution, with the possibility of monitoring 8 individually processes. All inputs will accept any combination of NO or NC contacts.

Each input can be programmed to control one or both of the two alarm relays for group alarm outputs. All inputs will activate the common siren relay. The delays for the inputs can be individually selected between 25 milliseconds and 60 seconds.

## Function

When alarm input is activated, the LED goes flashing and the interconnected output(s), alarm 1, alarm 2 and the siren goes ON.

When reset button is being activated, the LED goes steady and the siren goes OFF together with alarm 1 and 2, the interconnected output(s) is still ON. When alarm input is de-activated, display and the interconnected output goes OFF.

Please refer to the function diagram on figure 2.

## Label layout

A text description for the LED's can be printed on the blank legend card situated between the two covers at the front.

SELCO A/S also provides a Microsoft® Office Word template for doing this in an easy manner.

## Cable Monitoring

Cable monitoring provides extra security to the alarm system.

When using cable monitoring it is possible to translate both cable break and short circuit faults into an alarm (cable fault) whenever a NO or an NC contact is connected to the input(s).

Cable faults are indicated with short flashing pulses on the corresponding alarm channels. Cable fault indications will be overwritten by activation of input alarms and indicated with normal flash or steady light indication.

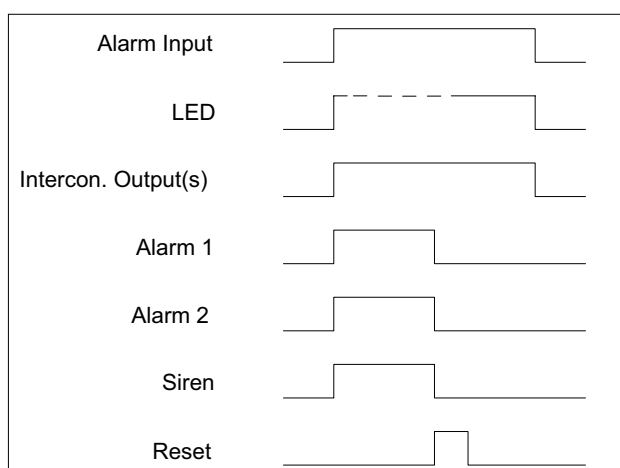


Figure 2. Function Diagram. Alarm 1 and 2 depend on dip switch settings

# Specifications

## M4200 Alarm Monitor

### SELCO Worldwide



- |                |                |
|----------------|----------------|
| Argentina      | Korea          |
| Australia      | Malaysia       |
| Austria        | Mexico         |
| Brazil         | Netherlands    |
| Belgium        | New Zealand    |
| Bulgaria       | Norway         |
| Chile          | Pakistan       |
| China          | Philippines    |
| Croatia        | Poland         |
| Czech Republic | Portugal       |
| Egypt          | Romania        |
| Finland        | Russia         |
| France         | Singapore      |
| Germany        | South Africa   |
| Greece         | Spain          |
| Hong Kong      | Sweden         |
| Iceland        | Taiwan         |
| India          | Thailand       |
| Indonesia      | Turkey         |
| Iran           | Ukraine        |
| Italy          | United Kingdom |
| Japan          | U.S.A.         |

<b>Voltage supply</b>	12 - 24 VDC (-30 % / +20 %) 8,4 - 60 VAC
<b>Power Consumption</b>	Max 180mA
<b>Ambient temp. range</b>	+20 °C / +70 °C
<b>Siren relay contact</b>	230VAC / 2A & 30VDC / 2A
<b>Output Max.</b>	250mA per channel
<b>LED flash frequency: Slow flashing</b>	1,25Hz ±10%
<b>LED flash frequency: Quick flashing</b>	5Hz ±10%
<b>Min input delay</b>	25 m. Sec
<b>Resistance in sensing cable Max.</b>	1000Ω (full length)
<b>Programming</b>	Dip switches or PC based programming
<b>RS232 Bits per second</b>	9600
<b>RS232 Data bit</b>	8
<b>RS232 Parity</b>	None
<b>RS232 Stop bit</b>	1
<b>RS232 Flow control</b>	None
<b>Burn-in</b>	50 hours before final test
<b>Maritime application standards</b>	IEC 60945
<b>Industrial application standards</b>	EN 6 1000-4-3, EN 6 1000-4-4, EN 6 1000-4-5, EN 6 1000-4-6
<b>Weight</b>	0,222 Kg
<b>Dimension (mm)</b>	96 x 96 x 20 (H x W x D)
<b>Panel cut out (mm)</b>	92 x 92
<b>Protection degree at front</b>	IP54

### Dimming

It is possible to adjust the brightness of the LED's on all multiple units by pressing the button "Test" or the external positioned button connected to terminal 11, for more than 10 seconds.

Dimming is done in 8 consecutive levels. The default brightness level is re-obtained when the lowest level have been obtained.

### Programming

Sunken into the rear of the Alarm Monitor, one rotary switch and two dip switches are positioned.

With the rotary switch it is possible to select which part of the program to be adjusted, channel selection (1-8), operational mode (0) or general functions (9).

With the two dip switches it is possible to adjust the program selected on the rotary switch e.g. time delay, reset settings, block mode, LED colour etc.

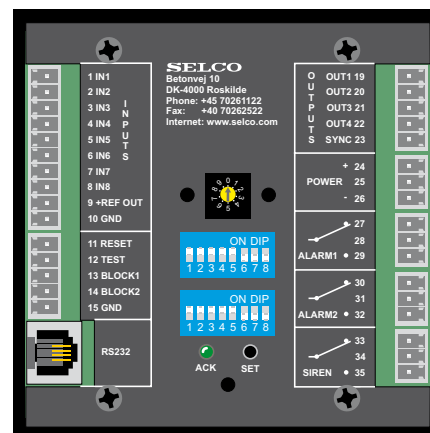


Figure 3. Rear of M4200

### PC based configuration

M4200 can be configured via the RS232 interface. A standard ANSI / VT100 terminal is used as the programming tool. SELCO A/S recommends Microsoft® Hyper Terminal.

For further information please refer to the Users Manual which can be downloaded from [www.selco.com](http://www.selco.com)

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