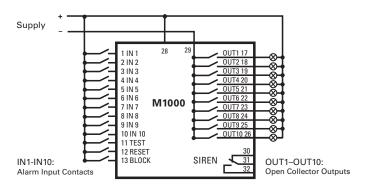
SELCO

M1000 Alarm Monitor Plus - D-version

 $c\epsilon$



Simplified Circuit Diagram



Features & Benefits

FEATURES	BENEFITS	
10 configurable digital inputs	Supports both NO and NC input contacts	
11 open collector outputs	Allows external control and remote indication	
1 siren relay output	Direct connection of alarm siren	
Special indication of first alarm	Provides clear alarm overview in larger systems	
Event Log	Access to alarm history	
Multiple units can be connected as one system	Modular and scalable solution	
Voltage and insulation monitoring	Replaces voltage and insulation monitoring relay on the DC system	
Dimming of LEDs	Suitable for bridge consoles	
Type-approved by marine classification societies	Applicable in harsh environments	
Configuration by DIP switches or PC (through USB)	Easy installation and configuration	
RS485 (Modbus RTU) Ethernet (Modbus TCP) Embedded Web Server	Communication with HMI and SCADA systems	

Description

Inputs from a dry contact (normally open NO or normally closed NC) will cause the corresponding LED to flash. Simultaneously a common alarm output and a siren output will be activated as well as an individual output.

The unit has separate indications of first alarm, following alarms and acknowledged alarms. It also has dedicated inputs for remote reset and alarm blocking.

The unit can be configured for sensor health monitoring and monitoring of its own supply voltage and insulation level.

Multiple M1000 units can be interconnected to form a large scale alarm system. In this situation functions are available for synchronizing the flashing of the LEDs and enabling global indication of first alarm for all connected units.

Alarm related parameters like time delays, reset functions and other features can be configured through 16 programming switches or by PC through a USB interface. An alarm log is available through the USB interface or the embedded web server as well.

The M1000 is equipped with a 2-wire RS485 interface supporting MODBUS-RTU and an Ethernet interface supporting Modbus TCP.

Additional features compared to M1000 C-version

The D version of the M1000 offers all the features available in the C version and is fully compatible with it. Additionally the D version includes Ethernet communication, an embedded web server and an alarm log.

Connection to the PC is done through a USB interface. The M1000D acts as a USB mass storage device. The configuration program and log viewer are directly accessible from this mass storage device, thus no further installation of configuration or log software on the PC is necessary.

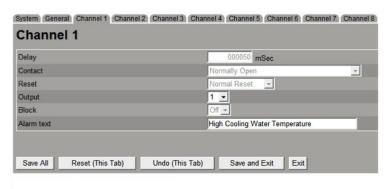
Ordering Information

ORDERING NUMBER	CONTROL POWER	FUNCTION
M1000.0500	12-24 Vdc	IP54 front

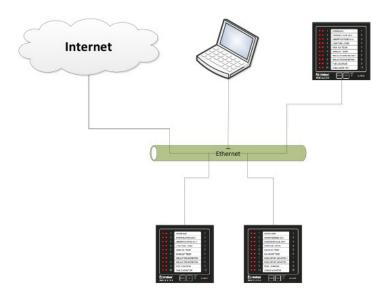
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View of the programming software



Ethernet Communication



View of the M1000 Log Through the Embedded Webserver



Specifications

Voltage Supply 12-24 Vdc-30%/+30% (8-32 VDC)

Max. Power

Consumption 180 mA **Ambient Temp.** $-20^{\circ}\text{C to } +70^{\circ}\text{C}$

Siren Relay Contact 220 Vac/2 A; 30 Vdc/2 A, 30 W

Output Max. 150 mA per channel

Resistance in

EMC CE according to EN60255-26

Programming 16 dip-switches or via PC (USB interface)
Log Viewer Available through USB interface or the

embedded web server

Communication RS485 interface, Ethernet interface

Weight 0.4 kg

Dimensions H 144 mm (5.7"); **W** 144 mm (5.7");

D 35 mm (1.4")

Panel Cut-out H 138 mm (5.4"); **W** 138 mm (5.4")

Protection Degree

at Front IP54

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