# Dr.Mayday

**ALARM-UNIT**

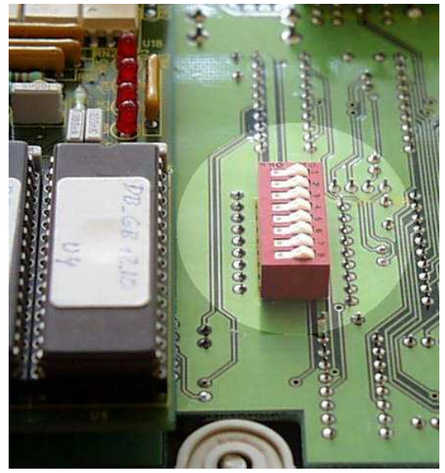

# INSTALLATION GUIDE

Version No. 1.28



## 1.0 Dip switch

Please locate the dip switch unit with 8 switches.
OFF = pushed down against “OPEN” ,



| Dip switch No. | Function controls |
|---|---|
| 1-3 | Station number series |
| 4 | OFF: Detection of faulty cable. Use resistors value 150Ω<br>ON: Alarm condition = cable short-circuited |
| 5 | ON: Battery test enabled. Uses output D |
| 6-7 | Duration of sounding siren.<br>Dip switch 6 and 7 OFF=1 minute |

## 1.1 The setting of station number series

In order to identify each input to Dr.Bell, they have a station number assigned to them.
Default setting is for main unit of Dr.Mayday: dip switch 1, 2 and 3 OFF.
Dr.Mayday expanding units must be set according to table:

| | Dip Switch number | | | Station number assigned | | |
|---|---|---|---|---|---|---|
| STATION | **1** | **2** | **3** | SYSTEM | Inputs 1-8 | outputs A-D |
| Main unit | OFF | OFF | OFF | 601 | 401-408 | 501-504 |
| Expanding unit 1 | ON | OFF | OFF | 602 | 411-418 | 511-514 |
| Expanding unit 2 | OFF | ON | OFF | 603 | 421-428 | 521-524 |
| Expanding unit 3 | ON | ON | OFF | 604 | 431-438 | 531-534 |
| Expanding unit 4 | OFF | OFF | ON | 605 | 441-448 | 541-544 |
| Expanding unit 5 | ON | OFF | ON | 606 | 451-458 | 551-554 |
| Expanding unit 6 | OFF | ON | ON | 607 | 461-468 | 561-564 |
| Expanding unit 7 | ON | ON | ON | 608 | 471-478 | 571-574 |

## 1.2 Faulty cable detection

Error on input will be triggered when cable circuit is disconnected. In order to detect a faulty short-circuited cabled it is recommended that you install a resistor with a value of 150Ω (85-235 Ω) on each input. OK condition will be resistence = 150Ω (85-235 Ω) and it is possible to detect shot-circuited cable. Dip switch 4 controls whether or not to detect shot-circuited cable.

| Detect shot-circuited cable | Dip Switch No.4 |
|---|---|
| **Yes**<br>A resistor with a value of 150Ω must be installed | OFF (default) |
| **No**<br>No resistors are installed | ON |

## 1.3 Battery test

Battery test uses output D to activate an input on the power supply which makes this switch to battery power mode for 10 minutes. The light in the D-key will be on.

If battery capacity is to low, i.e. voltage drops below 11.5 VDC, the test will stop, and an alarm situation will be triggered. SYSTEM, 12 VDC and the D-key lights will be flashing. Press hidden key RESET to acknowledge. New alarm will occur next day. In the meantime please change the battery.

Battery test will take place every 24 hours. The time of day may be settled by pressing D-key in 2 seconds at that time. Internal time will be set to 8.00. You may set the internal clock through telephone, see chapter: “Remote control through telephone”

This function is controlled by dip switch 5. ON position means function activated.

## 1.4 Local alarm, siren

Siren connects to terminal 6 and 7 on Dr.Mayday main unit. These terminal are live and are only suitable for recommended siren with a power consumption of less than 1 amp.

The duration can be controlled by setting dip switch 6 and 7.

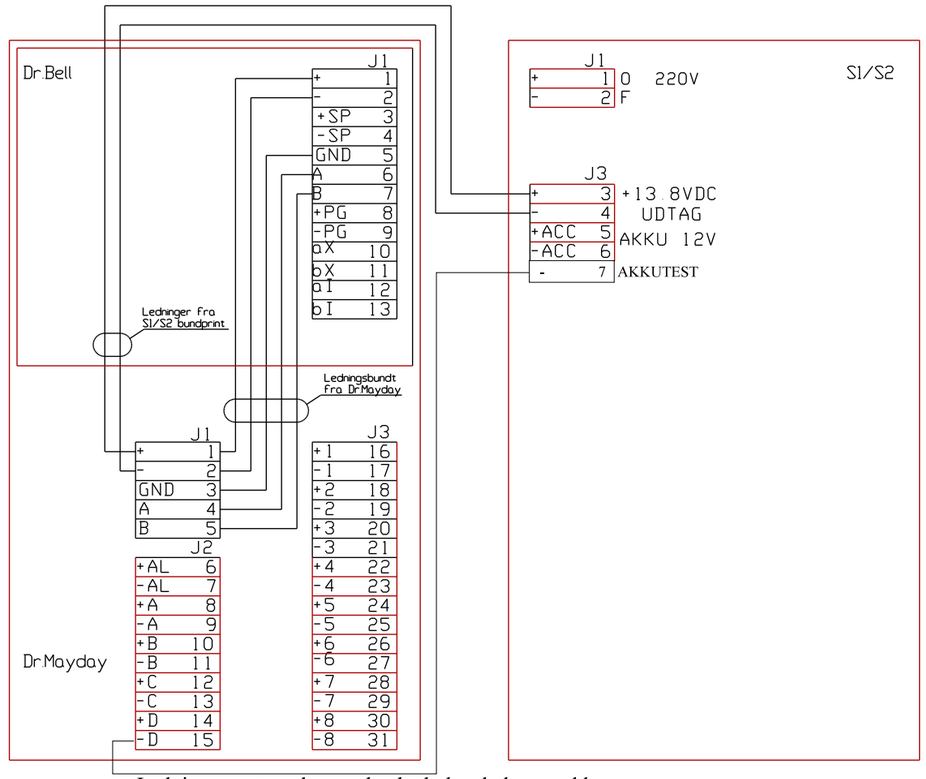
| Siren | Dip Switch No. | |
|---|---|---|
| **Duration** | **6** | **7** |
| 1 minute | OFF | OFF |
| 2 minutes | ON | OFF |
| 3 minutes | OFF | ON |
| 10 minutes | ON | ON |

## 1.5 Outputs

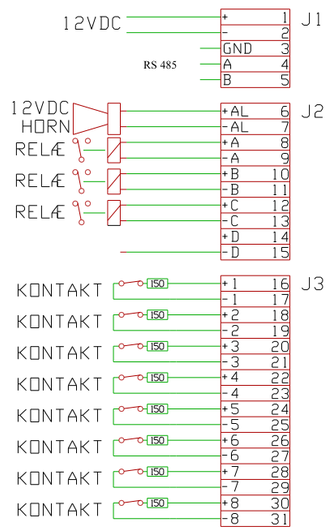
The outputs A, B and C are live with a voltage of 13.8 VDC. When active the negative terminal connects to GND.
Push key labelled A, B and C to toggle activation. Or they may be activated by remote control through telephone, please look in the “USER’S GUIDE”



# 5. Electrical Wiring




### Dr.Mayday /inputs and outputs




**Controlling relays:** Coil must be suitable for 12 VDC.

**Battery test**: install connection from terminal 15 to terminal 7 of the power supply

A **resistor** with a value of 150Ω must be installed outermost on the cable - by the triggering contact.
Resistors are placed in terminals from factory.