

T941AM8 ALARM MODULE

INSTALLATION GUIDE



NOTICE

The information contained in this document is believed to be accurate in all respects but is not warranted by Mitel Networks™ Corporation (MITEL®). Mitel makes no warranty of any kind with regards to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The information is subject to change without notice and should not be construed in any way as a commitment by Mitel or any of its affiliates or subsidiaries. Mitel and its affiliates and subsidiaries assume no responsibility for any errors or omissions in this document. Revisions of this document or new editions of it may be issued to incorporate such changes.

No part of this document can be reproduced or transmitted in any form or by any means - electronic or mechanical - for any purpose without written permission from Mitel Networks Corporation.

TRADEMARKS

The trademarks, service marks, logos and graphics (collectively "Trademarks") appearing on Mitel's Internet sites or in its publications are registered and unregistered trademarks of Mitel Networks Corporation (MNC) or its subsidiaries (collectively "Mitel") or others. Use of the Trademarks is prohibited without the express consent from Mitel. Please contact our legal department at legal@mitel.com for additional information. For a list of the worldwide Mitel Networks Corporation registered trademarks, please refer to the website: <http://www.mitel.com/trademarks>.

© Copyright 2016, Mitel Networks Corporation

All rights reserved

1 INTRODUCTION

T941AM8 has 8 physical inputs for connection to external alarm devices. Inputs are galvanically isolated, have transient protection, and can be programmed for making or breaking contacts.

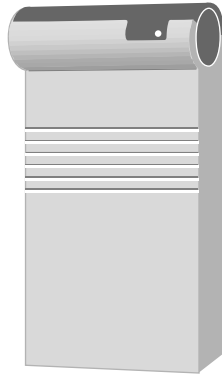


Figure 1. The Alarm Module.

Supply voltage:	12.5 V DC \pm 10%
Current consumption:	max 150 mA + 100 mA for all inputs For selection of input connection, see 7 Connection of Alarm Inputs for Voltage-Free Make/Break .
Delivery includes:	T941AM8 Modular system bus cable
Tools, etc. required:	Screwdriver Screws for installation Soldering iron

1.1 CIRCUIT BOARD OVERVIEW

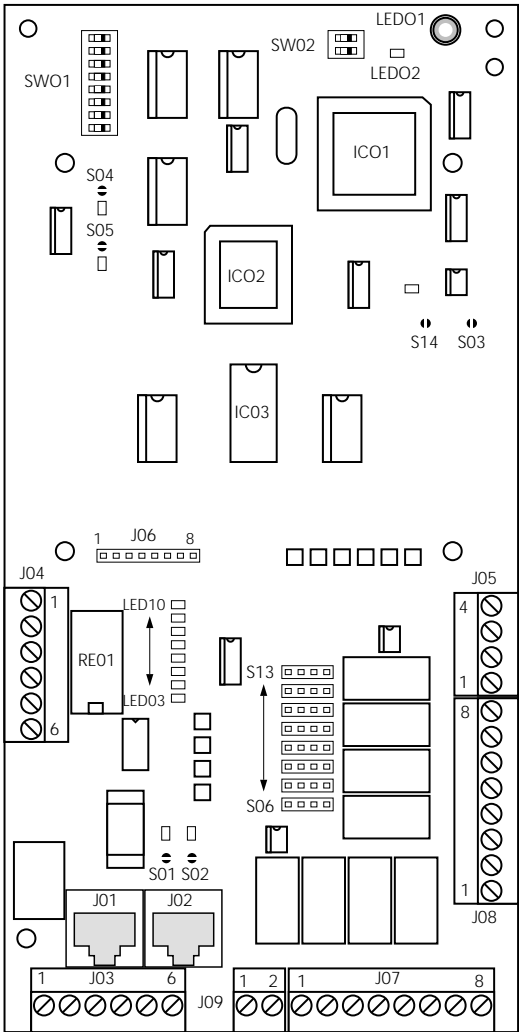


Figure 2. The circuit board of the Alarm Module.

2 INSTALLATION

The alarm module should be placed in a dry environment with a temperature range of 0 to +40°C.

The figure below shows dimensions for installing the alarm module.

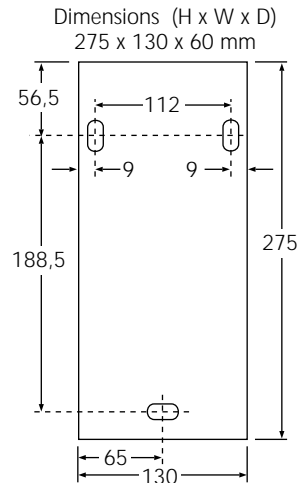


Figure 3. Mounting dimensions for the Alarm Module.

Note: To facilitate service after the unit is installed, we recommend a free space of about 50 mm above and 150 mm below the unit.

Use a screwdriver or similar to release the cover by applying a light pressure to the two snap catches (1) and remove the cover (2).

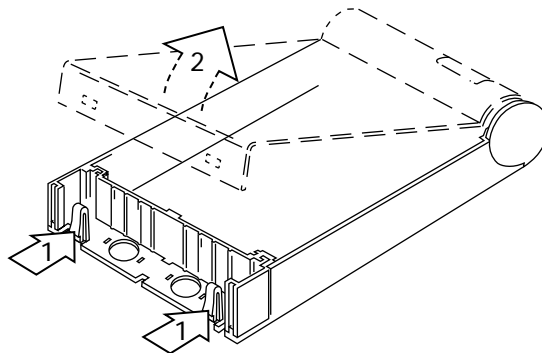


Figure 4. Releasing the cover of the Alarm Module.

2.1 INSTALLATION TOGETHER WITH OTHER UNITS

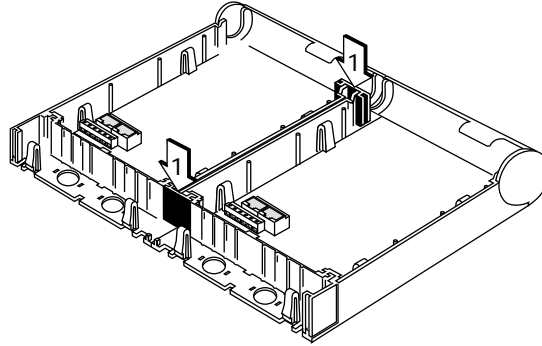


Figure 5. Mounting two units together.

- 1 Remove upper and lower covers. The lower rectangular covers are used to fasten units to each other (1).
- 2 Fasten the module with three screws; see [figure 3](#).

3 ADDRESSING

Select the proper address by setting address selector switch SW01. The address must not be 00 nor the same as any other 900 unit address.

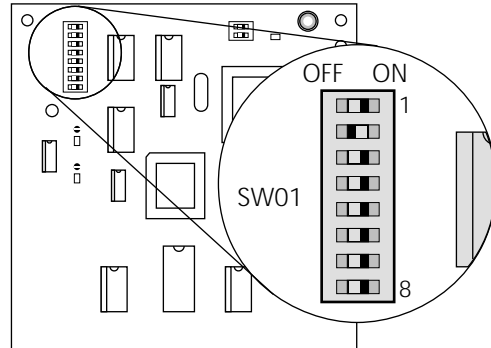


Figure 6. Addressing switch on the Alarm Module.

Note: When connected to the Central Portable Device Manager (CPDM), the module address has to be in the range 01 to 0F.

For information about how to distribute alarms from the CPDM to the Alarm Module, see *Installation and Operation Manual, CPDM*.

3.1 HOW TO SET THE ADDRESS

The address consists of two hexadecimal digits that are selected by the eight sections of the address switch. The eight sections are divided into two groups, each with four sections (1-4 and 5-8). Sections 5-8 select the first (most significant) hex digit and sections 1-4 select the second hex digit.

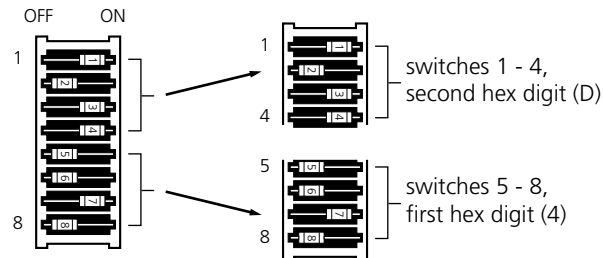


Figure 7. Setting the address of the Alarm Module.

4 WIRING RUNS

The plastic partition (shaded in [figure 8](#)) is scored to facilitate breaking at convenient intervals.

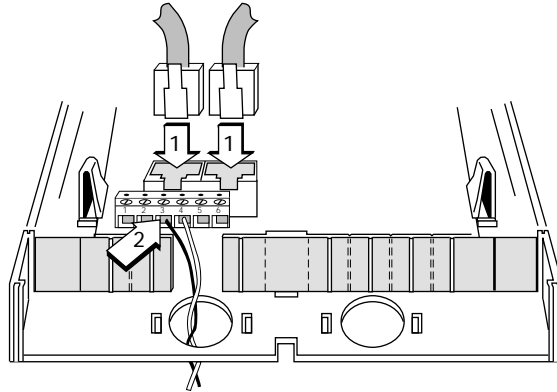


Figure 8. Breaking the partition for wiring.

- 1 Use pliers to break off a suitable section.
- 2 Run the wiring out through the partition.

Wiring can be run three ways from the Alarm Module:

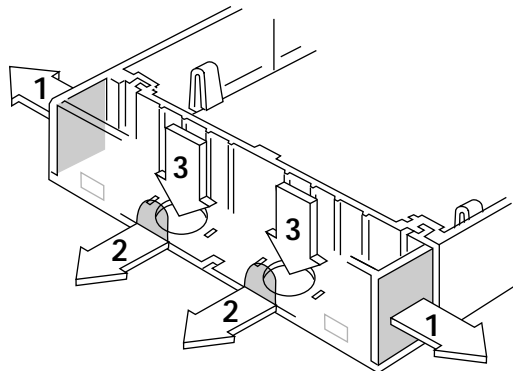


Figure 9. How to run cables from the Alarm Module.

- Remove the rectangular pieces and run the cabling out through the side (1).
- Break off sections at short side of case and run the cabling downwards (2).
- Run the cabling through the round holes at the bottom of the case (3)

Secure the wiring with cable straps.

5 CONNECTION OF SYSTEM BUS

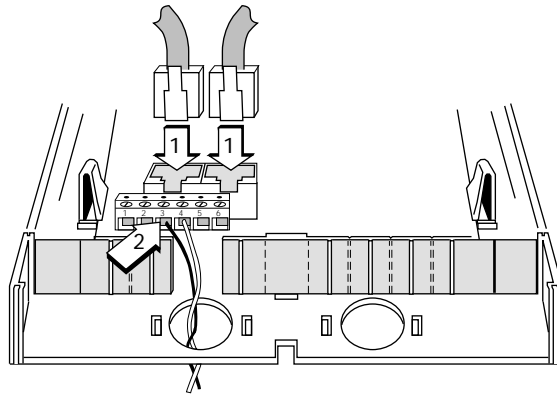


Figure 10. Connection of system bus with modular bus cable.

- Connect modular bus cabling to J01 and J02 (1)

or if required

- Connect two-wire connection to J03 screw 5 and 6 (2)
(see figure below)

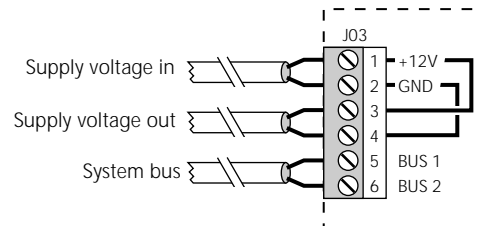


Figure 11. Connection of system bus with twisted-pair and supply voltage.

Note: The data lines are polarised. Use only twisted-pairs for two-wire connections!

6 CONNECTION OF SUPPLY VOLTAGE

Supply voltage is connected to screw 1 and 2 of screw connector J03 (see [figure 11](#)).

7 CONNECTION OF ALARM INPUTS FOR VOLTAGE-FREE MAKE/BREAK

- 1 Connect twisted-pairs to alarm inputs that are to be used: J07 for inputs 1-4 and J08 for 5-8.
- 2 Connect supply voltage to J09. This can be taken from J03-3 and -4. However, for galvanic isolation an external power supply must be connected to J09.

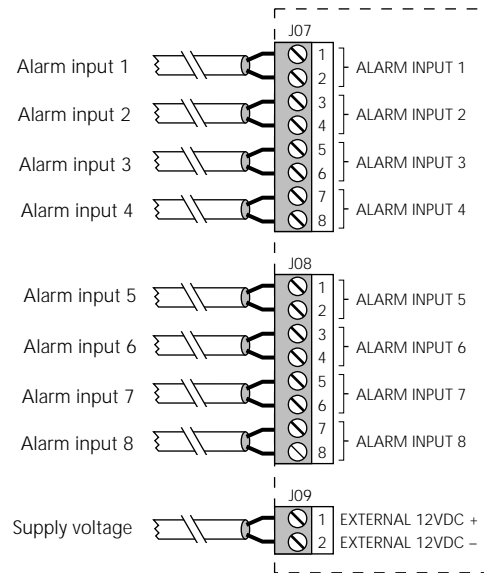


Figure 12. Connection of alarm inputs.

8 INSTALLATION TEST

After the installation, a functional check is made.

If a malfunction occurs, check that the functional indicator (LED) on the unit shows a steady light. If not proceed as follows.

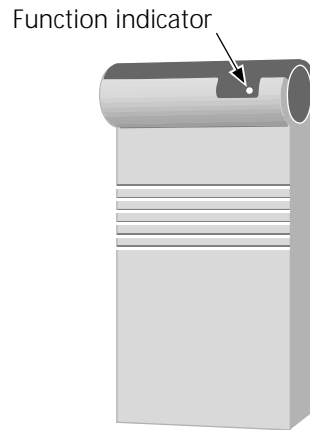


Figure 13. Function indicator on the Alarm Module.

- No light: No power, check power supply. Hardware fault, contact your dealer.
- Slow blink (0.5 Hz): Program error. Restart the unit by switching the power off and on.
- Fast blink (0.8 Hz): Communication error. Check bus polarity and addressing of the unit.
- One blink every fourth second: Unit in test mode. Contact your dealer.

Activate an input and check that the handsets respond correctly. Repeat this for every input that can generate alarms including handsets.

9 PROGRAMMING

System settings in the Alarm Module are factory set.

Default settings are:

- Information is transmitted to the Basic Alarm Manager in the CPDM when an input is opened or closed.