



MICROCOM

SISTEMAS MODULARES, S. L.



H E R M E S

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Important

1. This system has been developed to be installed by qualified personnel, not the final consumer. If you do not understand some of its technical aspects, please contact our experts.
2. Our drive for innovation in software and hardware is ceaseless and, although we make every effort to document our products correctly, there may be times in which inadvertent discrepancies appear between a product and some of its specifications. If you have any queries or comments, please contact us at the following email address: microcom@microcom.es.
3. Although GSM-based communications are extraordinarily reliable, we do advise against using our equipment in critical systems that have no form of redundancy in relation to their communication networks, as the GSM network can simply be temporarily out of service.
4. Life-support systems: This unit is not designed to be used in systems on which human life depends, i.e. in devices whose malfunction could endanger human life.
5. Our liability in connection with the equipment shall be limited to its repair or replacement in accordance with the terms of our warranty.

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1. Introduction

The HERMES M110 is an 8-digital-input module from the Hermes M1xx series. It provides a system with 8 additional digital inputs. These inputs can be used as alarm or counter signals, or can be connected to flow meters with pulse output to obtain instant flow readings.

2. Product presentation

Fig. 1 shows a front-on view of the module and the position of the status LEDs and address selection switch.

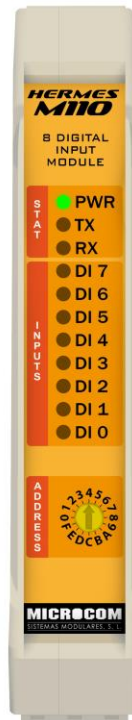


Fig. 1

LED description:

LED	MEANING
PWR	Indicates that the equipment is powered
TX	Transmission by the internal bus to the master module
RX	Reception by the internal bus from the master module
DI0-DI7	Digital input status

Address selection:

The address selection switch is used to select one of 16 addresses, from 0 to F, which must coincide with that selected in the module's configuration software.

3. Connection of the digital inputs

The Hermes M110 has 8 non-isolated digital inputs. These inputs must be activated from potential-free contacts as shown in Fig. 2.

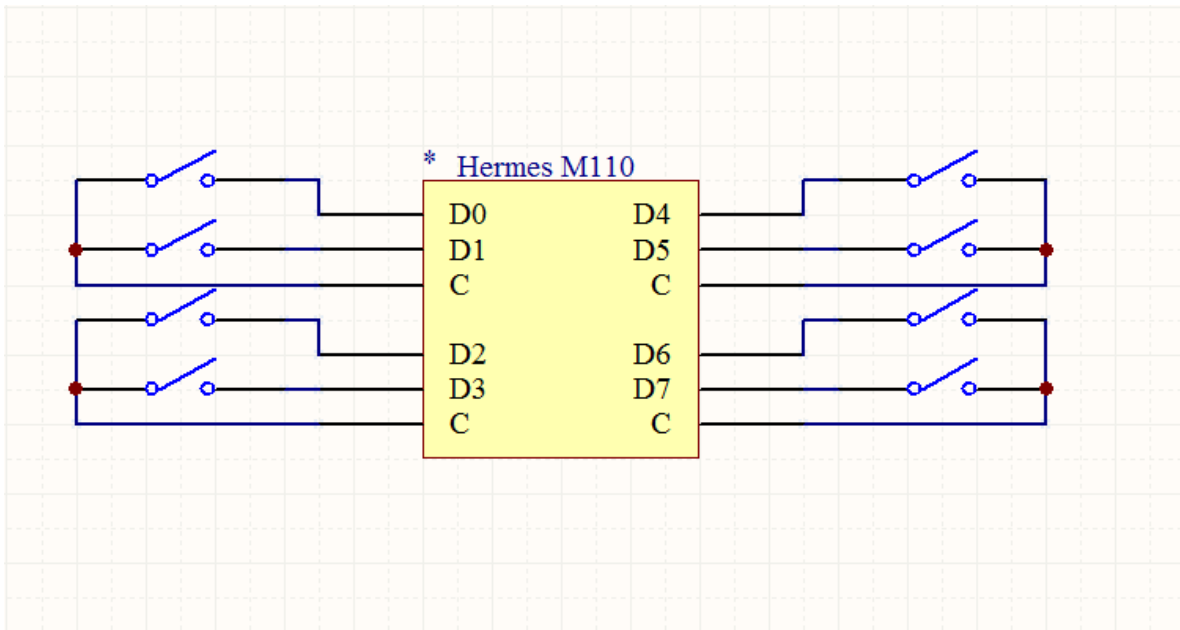


Fig. 2

4. Technical specifications

Consumption	200mW
Processor	RISC 8 bits @ 11.0592MHz
Size	DIN box. One unit size. 105 x 90 x 58
Weight	250g
Operating temperature	-10°C to +75°C

DIGITAL INPUTS:

Number	8
Type	Non-isolated digital inputs
Activation voltage	5-30v
Impedance	2200Ω
Sampling frequency	256Hz

5. Warranty

1. MICROCOM guarantees that this product is free from defects in materials and workmanship **for five years**, during which time its sole obligation under this warranty is to repair or replace, without charge, any of the equipment's parts whose materials or workmanship are deemed to be faulty after an examination has been performed by MICROCOM, and only under the conditions listed below.

a) MICROCOM has been informed of the fault in writing within five years of the date of purchase of the equipment.

b) The equipment has not been maintained, repaired or altered by any person who has not been previously approved or authorised by MICROCOM.

c) The equipment has been used properly and normally, and has not been altered or misused, broken by accident or damaged by an act of God or other similar catastrophic incident.

d) The purchaser, either the DISTRIBUTOR or the DISTRIBUTOR's client, packs and sends, or delivers, the equipment to MICROCOM's factory in Irun, Spain, within a maximum of 30 days after MICROCOM receives written notification of the fault.

The cost of sending the equipment to MICROCOM shall be borne by MICROCOM if sent from within Spanish territory.

e) MICROCOM's liability is limited to repairing or replacing any of the equipment's parts without charge, provided that the examination performed by MICROCOM reveals that the part is faulty due to a defect in materials or workmanship.

1.1. The DISTRIBUTOR or the DISTRIBUTOR's clients may send the equipment directly to MICROCOM if the DISTRIBUTOR is unable to repair the equipment, even if it has been approved to do so, and the DISTRIBUTOR has agreed with the client to have the repairs performed as covered by this limited warranty.

1.2. In the event that a product needs to be returned to MICROCOM for repair under the warranty, the DISTRIBUTOR must contact MICROCOM prior to sending in order to receive a Return Materials Authorisation number (RMA).