

MICROCOM

Simply More



HERMES M140

4 Analog output expansion module

User Manual

*“Perfection is achieved, not when there is nothing more to add,
but when there is nothing left to take away.”
-Antoine de Saint Exupery*

Warning

1. This system has been developed to be installed by qualified personnel, not final users. If you have any queries regarding technical aspects, please contact our experts.
2. Our efforts to innovate in the development of software and hardware are continuous. Despite paying close attention to documenting our products properly, discrepancies may occur between a product and some of its specifications. If you have any queries or comments in this regard, please contact us by email at microcom@microcom.es.
3. GSM network based communications are extraordinarily reliable. We do, however, advise against using our devices in critical systems that have no form of redundancy in relation to their communication networks, since, under exceptional circumstances, the service may become unavailable.
4. Life-support systems: This unit is not designed to be used in systems on which human life depends. That is, in devices whose malfunction could endanger human life.
5. Our liability in connection with the device shall be limited to its repair or replacement in accordance with the terms of the warranty.

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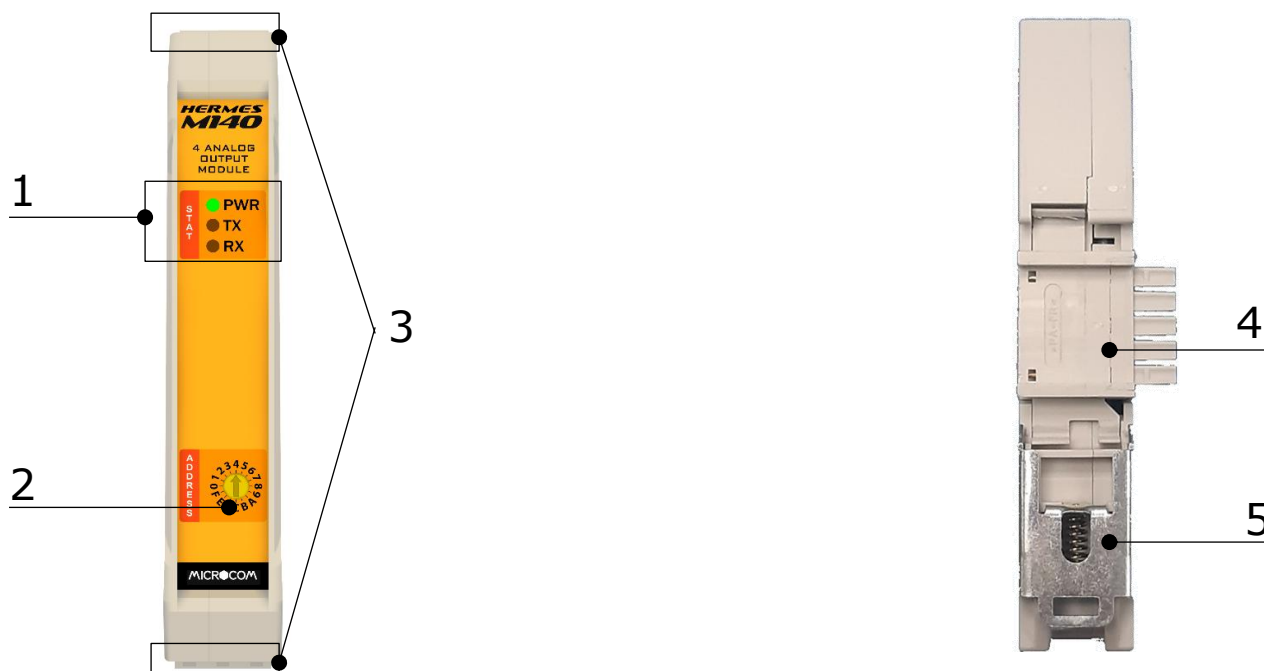
Microcom Sistemas Modulares, S.L.
C/Gorostiaga, 53 • Irún • GUIPÚZCOA 20305
Teléfono: 902 82 06 84 • 943 63 97 24
Fax: 943 017 800
microcom360.com

1 Introduction

The **HERMES M140**, part of the Hermes M100 series, is an expansion module that offers four analog outputs for 4/20mA loops. This module stands out for providing full galvanic isolation, both between the four outputs and between them and the power supply. The outputs operate in **passive mode**, meaning they regulate the current from an external power source.

It features a compact size with DIN rail mounts and pluggable terminal blocks.

2 Product presentation



ID	ELEMENT
1	Status LEDs.
2	16-position address selector (from address 0 to F). This address must match the one selected in the configuration software for this module.
3	3-way pluggable terminal blocks.
4	DIN rail bus connectors with push-in technology. Allows for easy connection between all M1xx series modules.
5	Metal plate for DIN rail mounting.

2.1 Status LEDs description:

LED	MEANING
PWR	Power indicator.
TX	Data transmission through the internal bus.
RX	Data reception through the internal bus.

2.2 Terminal Designation

Borne	Descripción	Notas
O0+	Analog output 0+	4/20mA
O0-	Analog output 0-	4/20mA
O1+	Analog output 1+	4/20mA
O1-	Analog output 1-	4/20mA
O2+	Analog output 2+	4/20mA
O2-	Analog output 2-	4/20mA
O3+	Analog output 3+	4/20mA
O3-	Analog output 3-	4/20mA

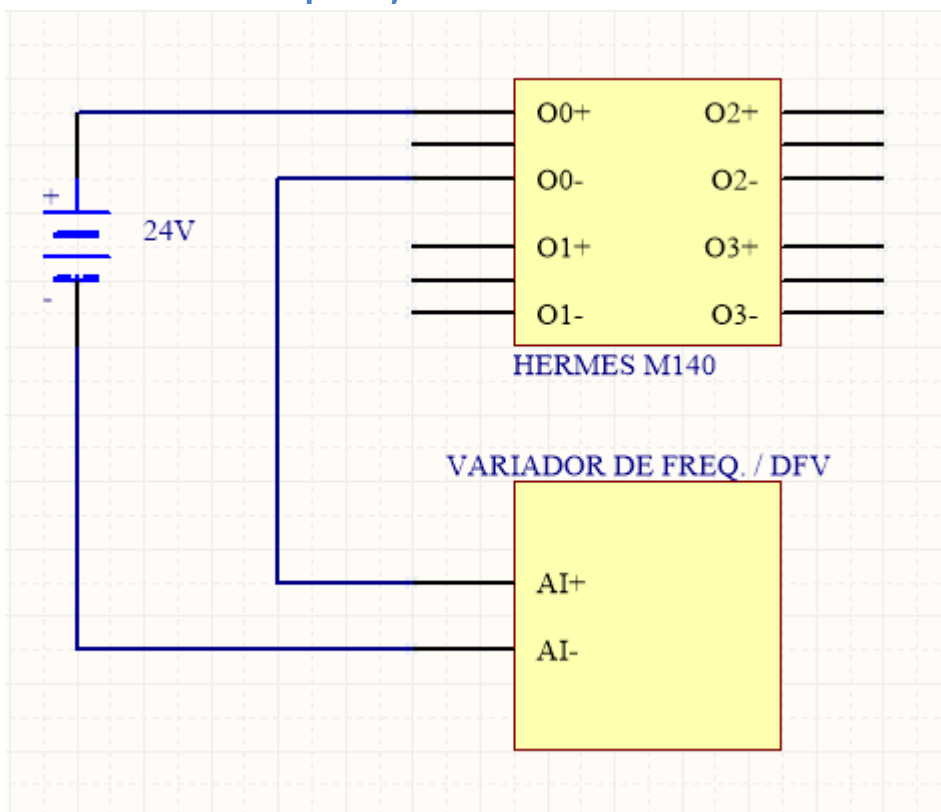
3 Installation and Handling

3.1 Start-up

The Hermes M140 is powered and communicates with the master module via the connector located on its back. Commissioning the device requires only two steps: proper selection on the address selector and correct wiring of its outputs.

3.2 Analog output connection example

Connection to a Frequency Inverter / VFD



4 Technical Specifications

GENERAL

Power supply	9-30 VDC
Consumption	200 mW
Operating Temperature	-10 °C to +75 °C
Size	Single-unit DIN case. 105 x 90 x 58
Weight	250 grams
Mounting	35 mm DIN Rail mounting
External Materials	Polycarbonate: UL94-V0

ANALOG OUTPUTS

Number	4
Interface	4-20 mA
Type	Galvanically isolated
Accuracy	0,2 %
Resolution	12 bits


5 Warranty

1- MICROCOM guarantees this product as free from defects in the materials and manufacturing for five (5) years. However, the only obligation of MICROCOM under this guarantee will be the repair or replacement free of charge of any piece of the equipment whose materials or manufacturing MICROCOM deems defective after examining such piece, and only under the conditions below:

- a) That the defects have been notified to MICROCOM, in writing and within five (5) years after the date of purchase of the equipment.
- b) That the equipment has not been maintained, repaired, or modified by any person who has not been previously authorised or approved by MICROCOM.
- c) That the equipment has been used in the proper and normal way, and it has not been modified or used improperly, or been involved in any accident or damaged by a fortuitous act or any other similar catastrophic incidence.
- d) The buyer, whether it be the DISTRIBUTOR or the DISTRIBUTOR's customer, shall pack and send or deliver the equipment to MICROCOM factory in Irún, Spain, within a maximum period of 30 days after MICROCOM has received the notification in writing of the defect. Transport to MICROCOM shall be at the expense of MICROCOM inside the Spanish national territory.
- e) MICROCOMs liability is limited to repair or replacement of any piece of the equipment free of charge, if MICROCOMs examination reveals that such piece is defective due to fault in the material or in the manufacturing process.

1.1.- The DISTRIBUTOR or the DISTRIBUTOR'S customers shall deliver the equipment directly to MICROCOM if they are not able to repair the equipment themselves, even if the DISTRIBUTOR has been authorised to perform such repairs and has agreed with the customer to perform them as set out in this limited guarantee.

1.2.- If the products have to be returned to MICROCOM for repair covered by the guarantee, the DISTRIBUTOR shall contact MICROCOM before the shipment in order to receive a Return Materials Authorization (RMA) number.

	<p>Disposal of electric and electronic waste (applicable in the European Union and in the other countries with selective collection). This symbol on the product or package means that the product may not be treated as household waste. Instead, it shall be delivered to the collection centre authorised for recycling electric and electronic waste, making sure that the product shall be disposed of properly, avoiding a potential negative impact to the environment and to the human health, which could be caused by improper management of the product disposal. Material recycling will contribute to the conservation of natural resources. For further information, please contact the specific office in your city providing a waste disposal service or with the supplier to whom you bought the product from.</p>
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