

# INSTRUCTION MANUAL

## EXCITATION SUPPLY

model

**MDC**

Thank you for choosing M-System. Before use, check specifications on the unit label.

If you have any problems or questions with the product, please contact M-System's Sales Office or representatives.

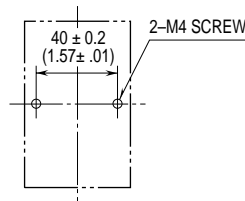
### General Description

The Model MDC-1 and MDC-2 are highly stable power supply. It can be used as a strain-gauge excitation power supply or any other application where a precise, stable voltage is required. The wide output range is field adjustable.

The Model MDC-3 is designed for two-wire loop transmitter power. It can be used as a general purpose power supply for any application requiring 24V DC or 40V DC power. The 40V DC output can be used in applications where intrinsic safety is not required.

### Installation [Scale: mm(inch)]

- Operating temperature: -5 to +60°C (23 to 140°F)
  - Operating humidity: 30 to 90% RH (non-condensing)
- Keep away from water, corrosive gas, dust and vibration. Wall or DIN rail mounting available.

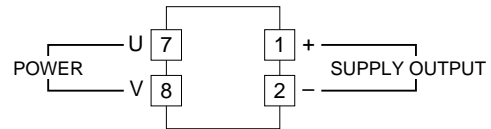


When mounting, no extra space is needed between units.

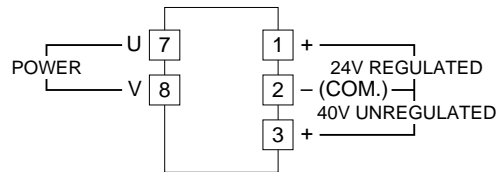
### Terminal Connections

Make wiring to terminals as shown in the figure below. Use the socket provided with the module.

#### ■MDC-1 & -2



#### ■MDC-3



### Adjustments

Output voltage adjustment is accessible via front potentiometer behind the front door.

- Open the front door so that OUTPUT ADJ. potentiometer is exposed.
- Connect a DC voltmeter across the output terminal 1(+) – 2(-).
- Turn the potentiometer clockwise or counterclockwise until desired voltage reading is obtained.

### Troubleshooting

When output is irregular, check the following points:

- Terminal wiring
- Power wiring and polarity
- Output: Check voltage across the terminal 1 (+) – 2 (-) or 3 (+) – 2 (-) with a voltmeter.
- Output: Check that output load is within the permissible limit.  
MDC-1, -2: 50mA max.  
MDC-3: 65mA max. (the total of 24V/40V outputs)

### M-SYSTEM WARRANTY

M-System warrants such new M-System product which it manufactures to be free from defects in materials and workmanship during the 36-month period following the date that such product was originally purchased if such product has been used under normal operating conditions and properly maintained, M-System's sole liability, and purchaser's exclusive remedies, under this warranty are, at M-System's option, the repair, replacement or refund of the purchase price of any M-System product which is defective under the terms of this warranty. To submit a claim under this warranty, the purchaser must return, at its expense, the defective M-System product to the below address together with a copy of its original sales invoice.

THIS IS THE ONLY WARRANTY APPLICABLE TO M-SYSTEM PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. M-SYSTEM SHALL HAVE NO LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES OF ANY KIND WHATSOEVER.

M-System Co., Ltd., 5-2-55, Minamitsumori, Nishinari-ku, Osaka 557-0063 JAPAN, Phone: (06) 6659-8201, Fax: (06) 6659-8510, E-mail: info@m-system.co.jp