INSTRUCTION MANUAL

PC RECORDER (contact output, 32 points)

BEFORE USE

Thank you for choosing us. Before use, please check contents of the package you received as outlined below. If you have any problems or questions with the product, please contact our sales office or representatives.

This product is for use in general industrial environments, therefore may not be suitable for applications which require higher level of safety (e.g. safety or accident prevention systems) or of reliability (e.g. vehicle control or combustion control systems).

For safety, installation and maintenance of this product must be conducted by qualified personnel.

■ PACKAGE INCLUDES:

| PC Recorder(1) |
|-----------------------------------|
| CD (software and users manual)(1) |

MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■ INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures. Read also the Users Manual for the software included in the CD for maximum use of the PC Recorder.

POINTS OF CAUTION

■ CONFORMITY WITH EU DIRECTIVES

- This equipment is suitable for Pollution Degree 2 and Installation Category II (transient voltage 2500V). Reinforced insulation (RS-232-C/RS-485 or output to power: 300V) and basic insulation (RS-232-C/RS-485 to output: 300V) are maintained. Prior to installation, check that the insulation class of this unit satisfies the system requirements.
- Altitude up to 2000 meters.
- The equipment must be mounted inside a panel.
- Insert noise filters. Okaya Electric Industries Model SUP-E1H or equivalent for the power source connected to the unit, and TDK Model ZCAT 3035-1330 or equivalent for the RS-232-C cable are recommended.
- The equipment must be installed such that appropriate clearance and creepage distances are maintained to conform to CE requirements. Failure to observe these requirements may invalidate the CE conformance.

- The actual installation environments such as panel configurations, connected devices, connected wires, may affect the protection level of this unit when it is integrated in a panel system. The user may have to review the CE requirements in regard to the whole system and employ additional protective measures* to ensure the CE con-
- formity. * For example, installation of noise filters and clamp filters for the power source, input and output connected to the unit, etc.
- Install lightning surge protectors for those wires connected to remote locations.

■ POWER INPUT RATING & OPERATIONAL RANGE

 Locate the power input rating marked on the product and confirm its operational range as indicated below: 100 – 240V AC rating: 85 – 264V, 47 – 66 Hz, approx. 10VA 24V DC rating: 24V ±10%, approx. 7W

■ GENERAL PRECAUTIONS

• Before you remove the module, turn off the power supply and output signal for safety.

■ PC RECORDER SOFTWARE

• Use the latest version of PC Recorder Software included in the product package.

ENVIRONMENT

- Indoor use.
- When heavy dust or metal particles are present in the air, install the module inside proper housing with sufficient ventilation.
- Do not install the module where it is subjected to continuous vibration. Do not subject the unit to physical impact.
- Environmental temperature must be within -5 to +60°C (23 to 140°F) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.
- Be sure that the ventilation slits are not covered with cables, etc.

■ WIRING

- Wrong connection may damage the module.
- Do not connect cables to moving parts or pull them tightly.
- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.

■ AND

• The module is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

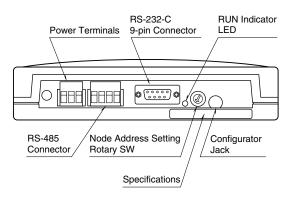
MODEL R1M-D1

PC REQUIREMENTS (provided by the user)

Refer to the MSRPAC-2010 data sheet for the contents of the package and the requirements for the PC to be prepared by the user.

COMPONENT IDENTIFICATION

REAR VIEW



INSTALLATION

DIN RAIL MOUNTING

Set the body so that its DIN rail adaptor is at the bottom. Pull down the DIN rail adaptor. Hang the upper hook at the rear side on the DIN rail and push in the lower. Push back the DIN rail adaptor.

DIN Rail 35mm wide

■ WALL MOUNTING

Set the body so that its DIN rail adaptor is at the bottom. Pull down the DIN rail adaptor. Refer to "EXTERNAL DIMENSIONS."

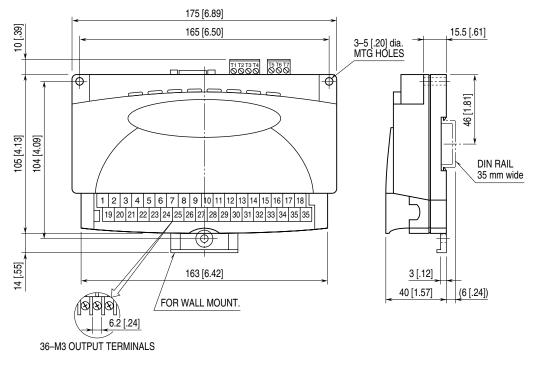
DIN Rail Adaptor /

TERMINAL CONNECTIONS

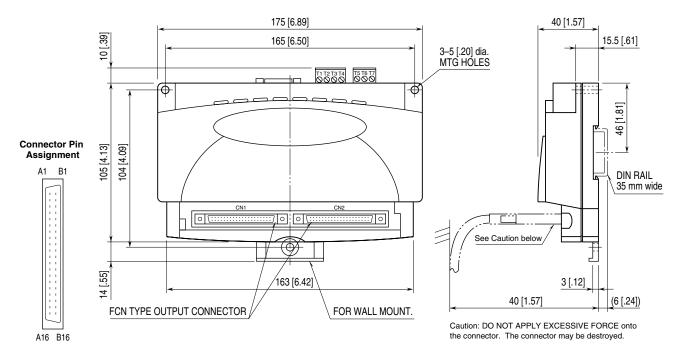
Connect the unit as in the diagram below.

■ EXTERNAL DIMENSIONS unit: mm [inch]

• SCREW TERMINALS



• FCN TYPE CONNECTOR

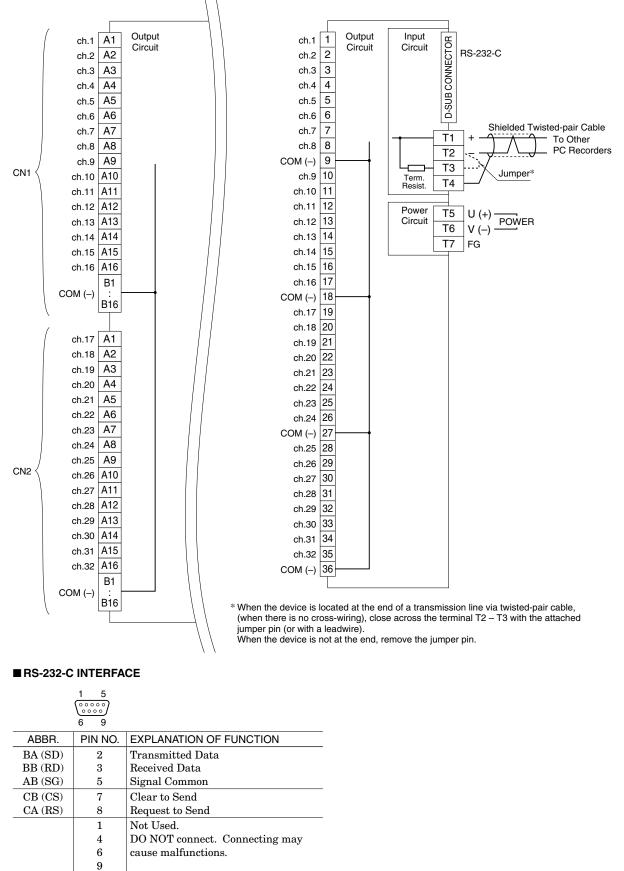


■ CONNECTION DIAGRAM

Note: In order to improve EMC performance, bond the FG terminal to ground. Caution: FG terminal is NOT a protective conductor terminal.

■ FCN TYPE CONNECTOR

M3 SCREW TERMINALS



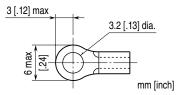
WIRING INSTRUCTIONS

■ M3 SCREW TERMINAL (Output signal)

Torque: 0.6 N·m

■ SOLDERLESS TERMINAL

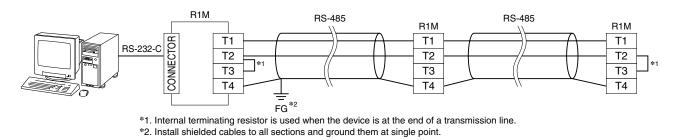
Refer to the drawing below for recommended ring tongue terminal size. Spade tongue type is also applicable. Applicable wire size: 0.75 to 1.25 mm² (AWG19 to 16) Recommended manufacturer: Japan Solderless Terminal MFG.Co.Ltd, Nichifu Co.,ltd



■ EURO TYPE CONNECTOR TERMINAL (Power input, Modbus)

Applicable wire size: 0.2 to 2.5 $mm^2\,(AWG24 \mbox{ to } 12)$ Stripped length: 7 mm

COMMUNICATION CABLE CONNECTIONS



CHECKING

- 1) Terminal wiring: Check that all cables are correctly connected according to the connection diagram.
- 2) Power input: Check supply voltage.