EMD-7201
Ethernet Digital I/O module

User's Manual (V1.0)

Correction record

Version	Record
1.0	firmware version 1.0 up

Contents

Notes on hardware installation

Please register as user's club member to download the
"Step_by_step_installation_of_Ethernet_module" document from http://automation.com.tw

1. Forward

Thank you for your selection of Ethernet module 7201 digital input output interface.

Thanks to the booming of network, Ethernet become a reliable and low cost solution for data communication. To utilize the Ethernet as data communication highway of industrial control devices is more attractive than ever. EMD720x module is a simple web based digital I/O control module. We also provide the dll's of Window's or Linux system, enabling you coding the flexible application as you need. Stable, high reliability and remote addressable module give you a new approach of application.

In the same series:

EMD-7201-4   4 TTL input and 4 relay output Ethernet DIO module
EMD-7201-8   8 TTL input and 8 relay output Ethernet DIO module
EMD-7201-T   8 TTL input and 8 TTL output Ethernet DIO module

Any comment is welcome,
please visit our website
http:// www.automation.com.tw   for the up to date information.

2. Features

- Over-voltage protection on digital input

- Various IO combinations

   4 TTL input and 4 relay output for EMD7201-4,

   8 TTL input and 8 relay output for EMD7201-8,

   8 TTL input and 8 Transistor output for EMD7201-T

- IP re-assignment

- Direct web page control

- Wide power range (for EMD7201-T)

3. Specifications

3.1 Digital input

    3.1.1   Input points: 4 for EMD7201-4

                      8 for EMD7201-8,EMD7201-T

    3.1.2   Logic high level: 3.15V(min)

    3.1.3   Logic low level: 1.35V(max)

    3.1.4   Over-voltage protection: 60Vdc(max)

    3.1.5   Over-current protection: 50ma(max)

3.2 Digital output

    3.2.1   Relay output points: 4 for EMD7201-4

                      8 for EMD7201-8

    3.2.2   Relay capacity: 3A@250Vac, 3A @30Vdc

    3.2.3   Transistor output: 8 for EMD7201-T

   3.2.4   Transistor capacity: 500ma(peak), 45Vdc(max)

3.3 Ethernet

    3.3.1   10/100M auto switch

3.4 General

    3.4.1   Power requirement: 22Vdc ~26Vdc for EMD7201-4, EMD7201-8

                      12Vdc ~26Vdc for EMD7201-T

    3.4.2   Operation Temperature: 0~+70 degree C

    3.4.3   Storage Temperature: -20 ~+80 degree C

    3.4.4   Operation Humidity: 5~95% RH, non-condensing

    3.4.5   Dimension: 89(D)*110(W)*34(H) mm

                    3.5(D)*4.33(W)*1.39(H) in

# 4. Layout and dimensions

4.1 EMD7201
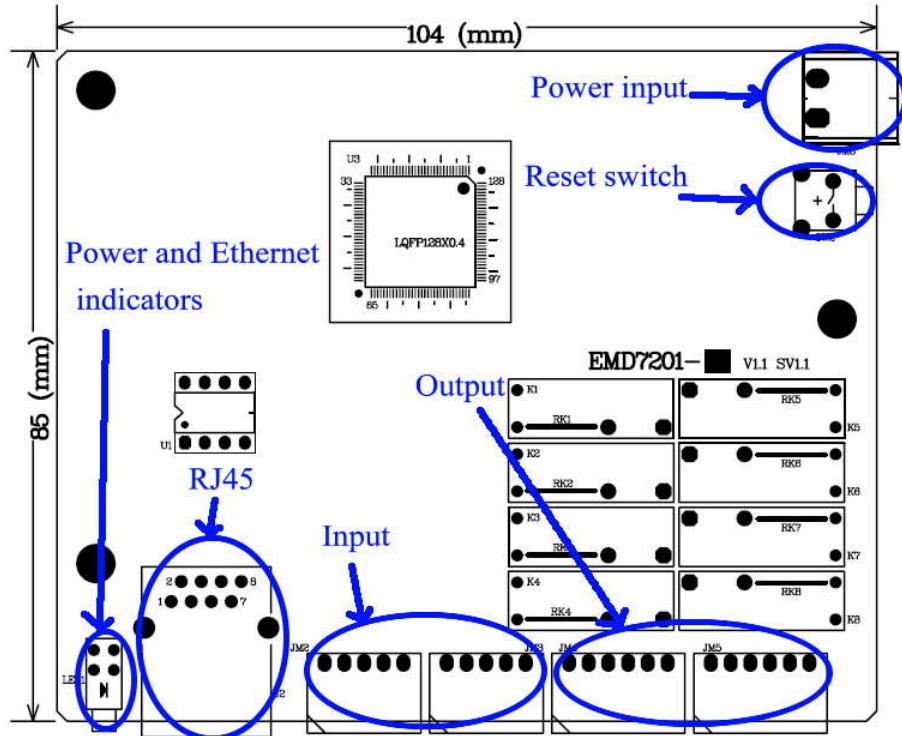
5. I/O Interface diagram

5.1 TTL input diagram

I/P WIRING   EMD7201input interface
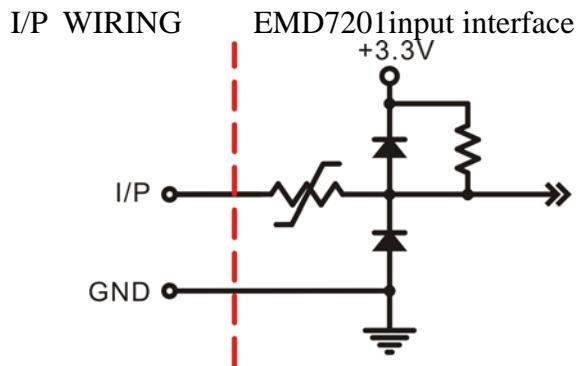
5.2 General output diagram

RELAY output

Transistor output
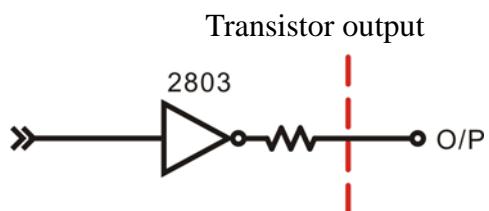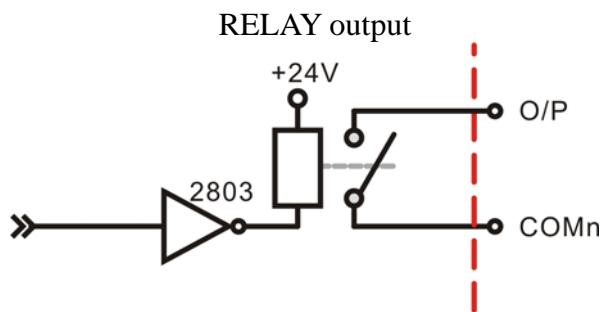
6. <u>Applications</u>

- For remote contact sensing
    - -- window or door open/close signal sensing
    - -- alram signal sensing
    - -- fire detector signal sensing
- For remote contact make or break control
    - -- window or door open close control
    - -- light control
    - -- power on/off control

7. Ordering information

PRODUCT	DESCRIPTIONS
EMD7201-4	Ethernet module, 4 TTL input 4 relay output
EMD7201-8	Ethernet module, 8 TTL input 8 relay output
EMD7201-T	Ethernet module, 8 TTL input 8 transistor output
JD52000	110/220Vac to 24Vdc @1.5A power supply
JD52026	110/220Vac to 24Vdc @0.75A power adapter