

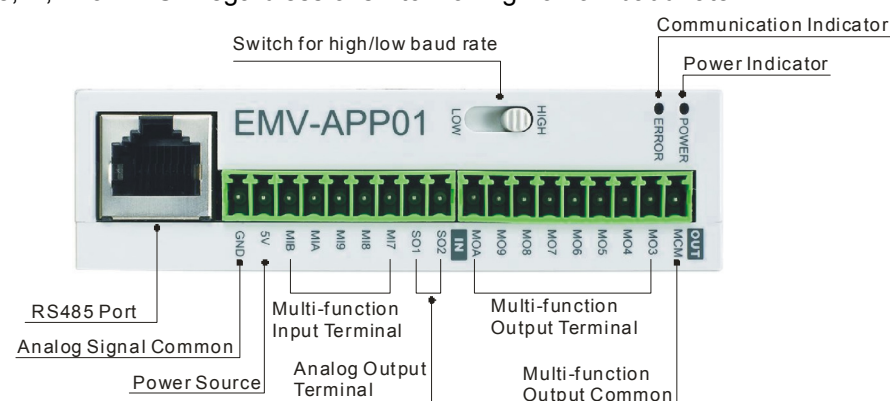
EMV-APP01 Multi-function I/O Extension Card

Instruction Sheet

- ◆ Please thoroughly read this instruction sheet before installation and putting it into use.
- ◆ The content of this instruction sheet and the driver file may be revised without prior notice. Please consult our distributors or download the most updated instruction version at <http://www.delta.com.tw/industrialautomation>.

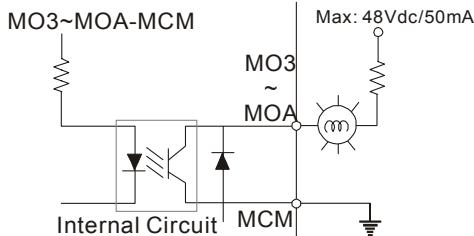
1 Function Explanation

EMV-APP01 is optional I/O extension card for VFD-VE series of AC motor drive. Due to communication via RS-485 communication port (COM1), to ensure normal communication, please set COM1 communication protocol (Pr 09-04) to "8. N. 1 for RTU " regardless of switch for high or low baud rate.

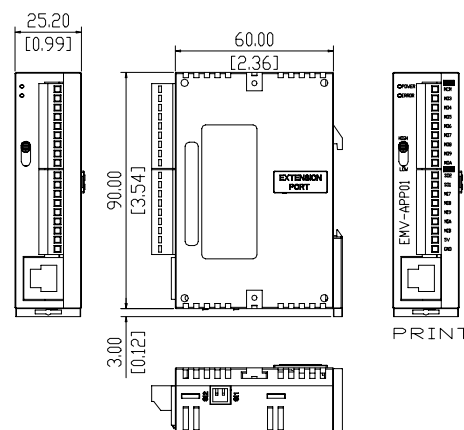
 **NOTE**

When switching baud rate, firstly you should disconnect RS-485 cable, then switch for high or low baud rate and set AC motor drive baud rate (Pr 09-01) to correspond with the switch's baud rate. Only if the user does as the description above, you can switch baud rate successfully. If you don't disconnect RS-485 cable firstly and switch for high or low baud rate directly, you still can see ERROR LED displays normal communication, whereas, actually the communication fails, even if AC motor drive baud rate (Pr 09-01) is corresponding to the switch's baud rate.

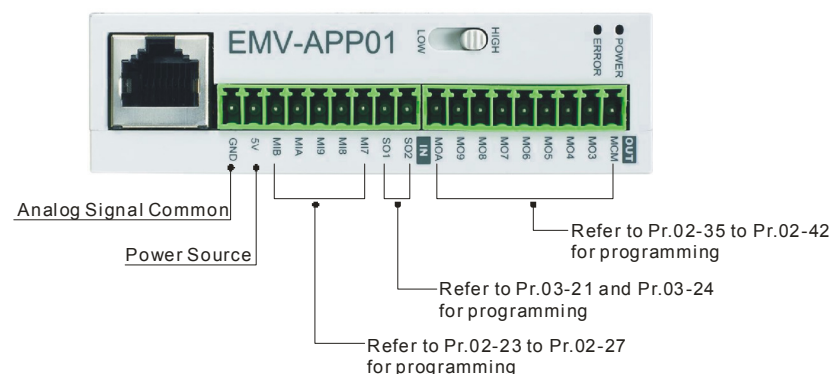
Terminal Symbol	Explanation
POWER	Power Indicator. If the connection between EMV-APP01 and AC motor drive is right, this LED will be steadily on.
ERROR	Communication Indicator. If the EMV-APP01 can communicate with AC motor drive normally, this LED will be on; if not, it will blink.
HIGH/LOW	Switch for high/low baud rate HIGH: Set EMV-APP01's baud rate to 115200 LOW: Set EMV-APP01's baud rate to 9600
5V	Power Source: 500mA Max
GND	Analog Signal Common  NOTE This terminal is only used with "5V" terminal on EMV-APP01. DO NOT confuse with the control terminal "DCM" on AC motor drive.
SO1-GND SO2-GND	Analog Output Terminal: 0~10.0V (Output Current: 2mA Max) Analog output value is defined by Pr.03-21 and Pr.03-24.

Terminal Symbol	Explanation
MI7~MIB	Multi-function Input Terminal Refer to Pr.02-23 to Pr.02-27 for programming the multi-function inputs. For example: MI7-GND ON: the activation current is 6.5mA. OFF: leakage current tolerance is 10 μ A.
MO3~MOA	Multi-function Output Terminal (Photocoupler) AC motor drive output various signals by open collector, such as AC drive operating, frequency attained, overload indication and so on. Refer to Pr.02-35 to Pr.02-42 for programming the multi-function outputs. 
MCM	Multi-function Output Common Max: 48Vdc/50mA  NOTE This terminal is only used with “MO3” ~ “MOA” terminal on EMV-APP01. DO NOT confuse with the control terminal “MCM” on AC motor drive.

② Dimension



③ Wiring Diagram



When wiring, please refer to Parameter Group 02 and 03 in Chapter 4 Parameters for programming the multi-function inputs/outputs. The user could choose suitable setting functions to meet your own needs.