

1

1.1 Introduction of DVP12SE

DVP-SE is a 12-point (8 DI+4 DO) PLC MPU, offering various instructions and with 16K steps program memory, able to connect to all DVP Slim type series extension modules and high-speed extension modules, including digital I/O (max. 480 I/O points) and analog modules (for A/D, D/A conversion and temperature measurement). 2 points of 100 kHz and 2 points of 10 kHz high-speed pulse output satisfy all kinds of applications. DVP-SE is small in size, and can be installed easily. Users do not have to install any batteries in DVP-SE series PLCs. The PLC programs and the latched data are stored in the high-speed flash memories.

1. Setting the Ethernet

The DVP-SE series PLC contains a built-in Ethernet communication port. Users have to set the network parameter before the PLC connects to other network devices. The default parameter setting values are 192.168.1.5 (the IP address) and 255.255.255.0 (the subnet mask). Users can set the parameter by using DCISoft, or by using the PLC program to write the values into the network control register (CR).

- Software: Start the DCISoft, and connect the PC to the DVP-SE series PLC through the ethernet cable. Enter "Communication Setting" page in DCISoft, and choose "Ethernet" communication port. Then, click "Search" to search for the picture representing the DVP-SE series PLC. After users click the picture twice, the setting page appears. Finally, enter the related parameters, and click "Apply" to finish the setting.
- PLC program: Users use the instruction "To" to write the IP address (CR#88, 89) and the subnet mask (CR#90, 91). For example, when the IP address is 192.168.1.5, users write 192.168 (H'00A8) into CR#89, and .1.5 into CR#88 (H'105).

Note: When users use the instruction "From/To" to read the data from the network control register and write the data into it, the module number is K108.

2. Specifications

- Program capacity: 16k steps/Data register: 12k words
- Higher execution speed compared to the competition: LD: 0.64μs, MOV: 2μs
- Built-in Ethernet supports MODBUS TCP and Ethernet/IP
- IP Filter function is a firewall that offers the first line of defense and provides protection from malware and network threats
- Supports DVP-S series left-side and right-side modules
- No battery required. Maintenance-free.
(Real time clock operates for 15 days after power off)

3. Motion control functions

- 4 sets of high-speed pulse output: 100 kHz/2 sets, 10 kHz/2 sets
- 8 sets of high-speed pulse input: 100 kHz/2 sets, 10 kHz/6 sets
- Supports 2-axis linear and arc interpolation

4. Built-in High-speed Counters

1-phase 1 input		1-phase 2 inputs		2-phase 2 inputs	
Sets	Bandwidth	Sets	Bandwidth	Sets	Bandwidth
2/6	100 kHz/10 kHz	2	100 kHz	1/3	50 kHz/5 kHz