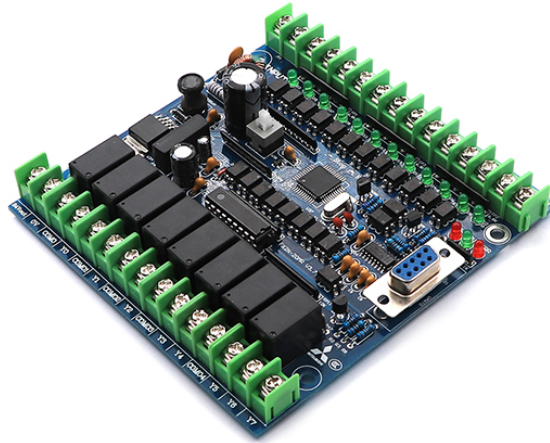# PLC Development Board
Model: FX2N-20MR

Description:

• PLC board power supply 24VDC, select the type of Mitsubishi FX2N.

• Input: 12 points

• Output: 8 points

• Maximum memory capacity: 8,000 steps.

• Can be directly used Mitsubishi programming software GX Developer (7.08 - 8.52) Programming \Download \ debug \ monitoring.

Support Device:

X0-X27, Y0-Y27, no leads for the input and output ports, the program can be used as an ordinary M relays can be forced to modify (device test function).

• M0-M255, M512-M768 (latched)

• S0-S255, S512-S640 (power outage to maintain),

• T0-T23 (100mS Timer), T200-T215 (10 ms timer), T250-T255 (100ms cumulative timer)

• C0-C23 (16-bit counter), C200-C207 (32-bit addition and subtraction latched counter), C235 (32-bit high- speed addition and subtraction latched counter)

• D0-D79, D512-D527 (latched)

• V0-V7, Z0-Z7.

Special Software Components:

• M8000 (operation monitoring contact) While M8001 (operation monitoring anti-contact).

• M8002 (initialize pulse contacts), M8003 (initialize pulse anti-contact).

• M8004 (error indication contact).

• M8011 (10 ms clock pulse), M8012 (100 ms clock pulse), M8013 (1 second clock pulse), M8014 (1 clock pulse).

• M8020 (zero flag), M8021 (borrow flag), M8022 is (carry flag).

• The M8029 (instruction execution marks the end of).

• M8033 (memory to maintain contact).

• M8034 (disables the output contacts).

• M8200-M8203 (C200-C203 counting direction).

• Counting direction of the M8235 (C235).

• D8000 (monitoring timer is set value).

• D8012 (the maximum scan time).

• D8140 (Y0 pulse output count register)

• M8031 --- communication status indicator relay. Turned that are communicating. Disconnect means that there is no communication.

• M8032 is new key indicator relay. Turned D32 there are new key. Button for each operation, the M8032 is turned on. Reading the after you have finished setting up the key value, please put M8032 reset.

Constant Support:

- K range: -32768-32767 or 0-65535; H range : b0-FFFFH.

- Basic instructions: LD, LDI, AND, ANI, OR, ORI, INV the OUT (out OUTC), SET, RST, ANB, ORB, LDP, LDF, ANDP ANDF
- ORP, ORF, PLS, PLF, MPS, MRD, MPP, MC, MCR, RET, NOP, END.
- Step instructions: STL: support up to 8 parallel branches, different state number can double coil.
- Contacts comparison instructions: LD> = LD <= LD> LD <LD <> LD = AND> =, AND <=, AND, AND <, AND <>, AND, OR> = OR <=, OR>, OR <, OR <>, OR =.
- The sending and comparison instructions: MOV, CML, XCH, BCD, BIN, CMP, ZCP, FMOV.
- Four arithmetic instructions: ADD, SUB, MUL, DIV, INC, DEC, WAND, WOR, WXOR NEG.
- Rotate Instructions: ROR, ROL, RCR, and RCL.
- Data processing instructions: ZRST, DECO, ENCO, SUM, BON, mean.
- Program flow instructions: CJ (up to 16 addresses), call (maximum five nested subroutines), SRET, FEND, WDT, FOR (up to five nested), next.
- Convenient instruction: ALT.
- High-speed processing instruction: REF, REFF, MTR, PWM (Y0, Y1 support all the way, and can be used at the same time), SPD (only supports X0 and all the way), PLSY (only supports Y0 way; 21Hz-20kHz)
- Peripherals I / O port: SEGD.
- Peripherals SER instruction: ASCI.
- Nibble exchange instruction: SWAP.

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