MITSUBISHI
PROGRAMMABLE CONTROLLERS

# FX2NC SERIES

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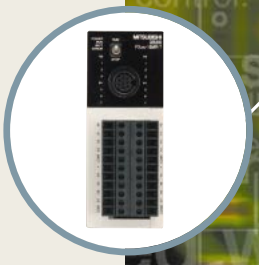

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# *PERFORMANCE and VERSATILITY*
# in One Ultra Compact Micro Programmable Controller

The FX2NC series is both highly compact and technologically advanced, boasting superb performance and sophisticated features. It increases your creativity by making your imagination come to life in a comfortable operating environment. Truly a new world for micro programmable controllers.

### Ultra Compact

Only 35mm wide by 90mm high, yet gives you control over 32 I/O unit.

### Handles up to 256 I/Os

Small, but can handle up to 256 I/Os (when expanded).

### Full Communications Capabilities

You can build a versatile network with simple PC links, computer links, and serial links.

### Wiring Is Very Easy

European Terminal Connectors make I/O connections quick and simple.

### High Performance and Sophisticated Features

With an FX2NC series–compatible CPU even special applications are easily handled. You can output two PLSY instructions at once.

### Common Peripherals

Shares peripherals with the whole FX series, so you can monitor and write programs.

### Memory Board Capability

You can expand memory and/or add a Real Time Clock by using one of the four available memory board.

### Battery Included as Standard

These programmable controllers can store large quantities of data for long periods of time. This also makes it easy to bring equipment back on line after a long power outage.

### Good for New Applications

The capabilities of the FX2NC enable it to perform superlatively in many applications.

# Features

## An Extra Dimension of Versatility for the Powerful FX2NC Series

### DC Input/Relay Output Model with a Greater Range of Applications

New relay output model can be used in multiple connection configurations with the popular connector type, providing more flexible system configuration with maximum compactness.

Unit: mm (inch)

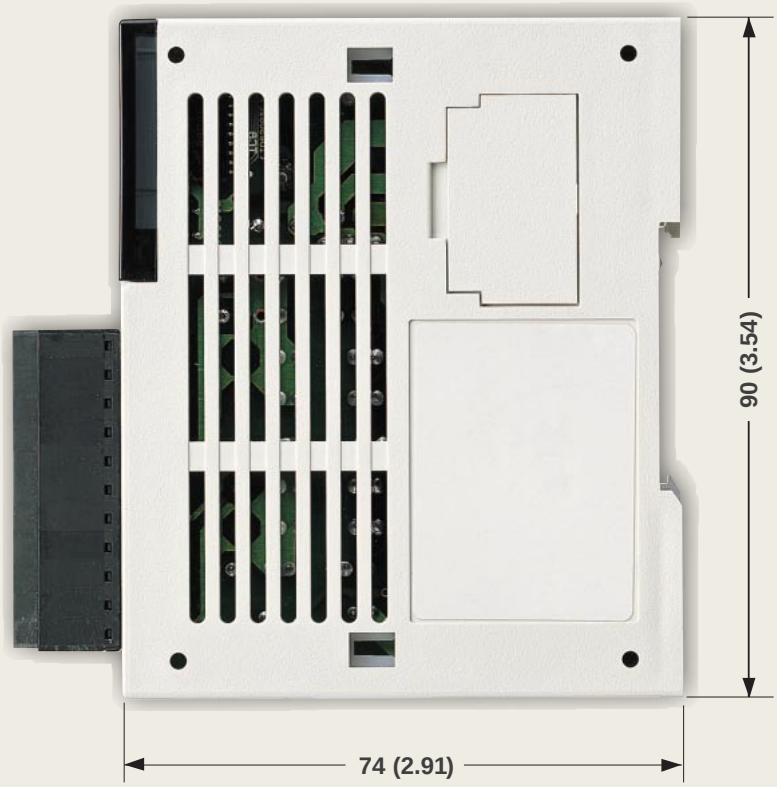
NEW

**FX2NC-16MR-T-DS**

Base 16-pin unit

**DC input: 8 inputs**
(DC 24V)

**Relay output: 8 outputs**
2A /1-pin (4A/per common)

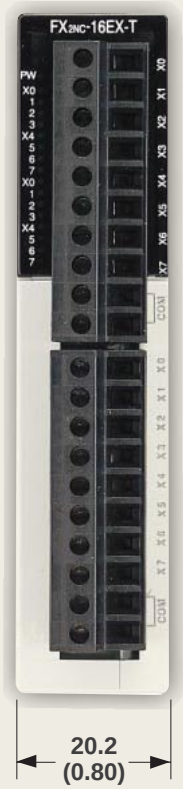


NEW

**FX2NC-16EYR-T-DS**

16-pin output extension block

**Relay output: 16 outputs**
2A/1 pin (4A/per common)




NEW

**FX2NC-16EX-T-DS**

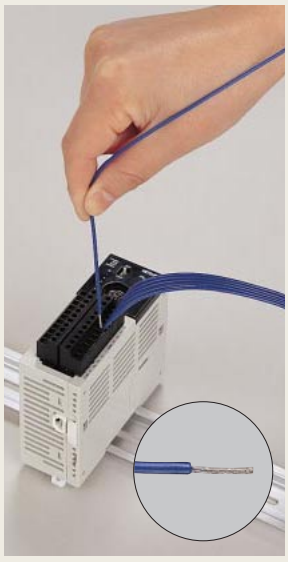
16-pin input extension block

**DC input: 16 inputs**
(DC 24V)

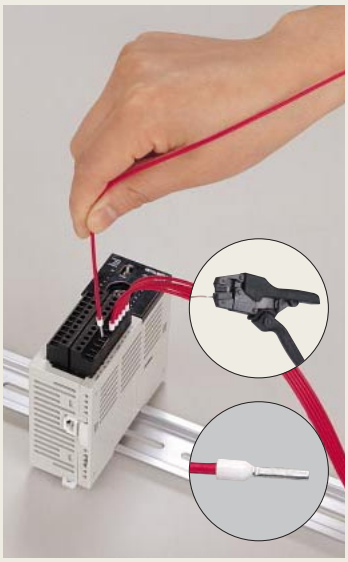
## Easy Wiring with Front Panel Fasteners and Removable Terminal Blocks

Stranded wire or single core wire from 0.3mm² to 0.5mm² (AWG22 to 20) can be connected to European style terminals without crimp type connectors. (Can accommodate up to two 0.3mm² wires.)
Cylindrical terminals fitted with the prescribed insulation sleeve (refer to Phoenix Contact products on Page 7) can also be used.

Stranded wires or single core wire connection

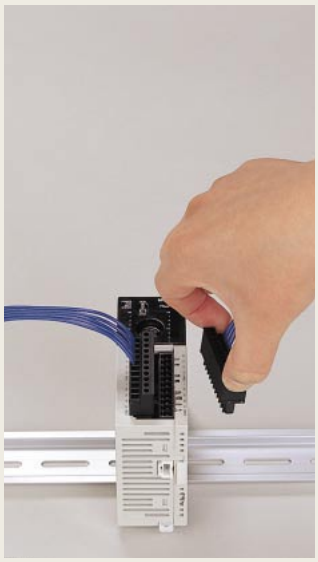


Insulated cylindrical terminal connections



■ Easy wiring access from the front panel

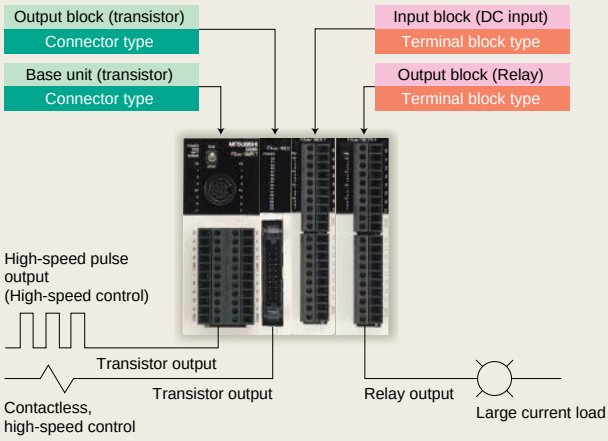
■ Fitting and removal by touch



**Screwdriver for European style terminal block**
Please ensure that the screwdriver meets the following specifications.
Market product: 0.4mm blade thickness/2.5mm blade width (the tip is a straight driver)
Phoenix contact product: SZS 0.4×2.5 model (Refer to Page 7 for inquiries).

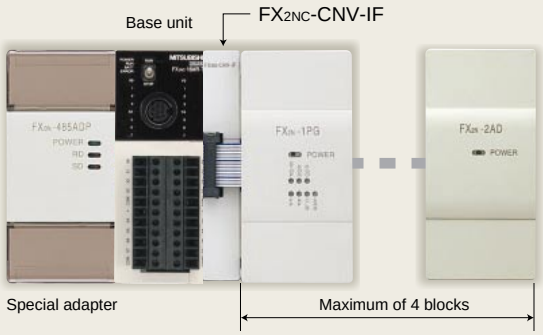
## Many of Combinations Give Wide-Ranging Options and Uses

Can accommodate both terminal block types and connector types.




"High-speed control with transistor output" and "Large current load generated by relay output" in a combination which is still compact in size.
Linking connector type I/O to a terminal block allows AC 100V input and triac output compatibility.

Compatible with a Wide Variety of FX0N and FX2N Devices.



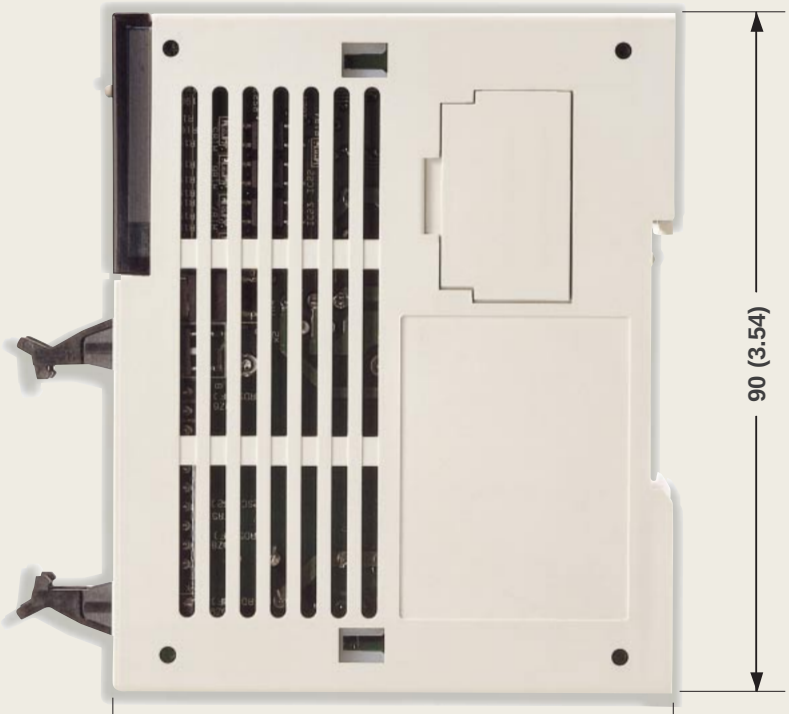

One FX0N special adapter can be connected to the left-hand side of the base unit. A maximum of 4 additional FX0N and FX2N I/O extension blocks and special devices can be connected to the right hand side through a FX2NC-CNV-IF interface.

**Special add ons:** Analogue I/O, thermocouple, PT-100
Positioning, pulse output, high-speed counter, cam switch.

**Communications/Link:** RS-232C, RS-485, ID system
Parallel link, simple PC to PC link, computer link.
I/O link, CC-Link

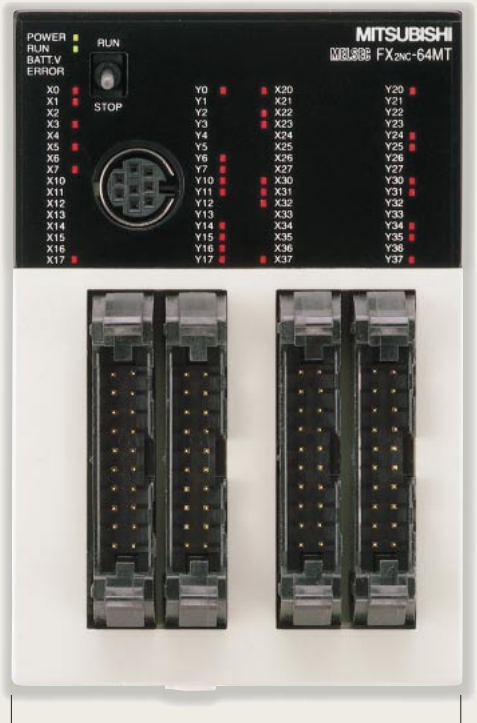
Unit: mm (inch)

## FX2NC-16MT-DSS / FX2NC-32MT-DSS




35 (1.38)

## FX2NC-64MT-DSS

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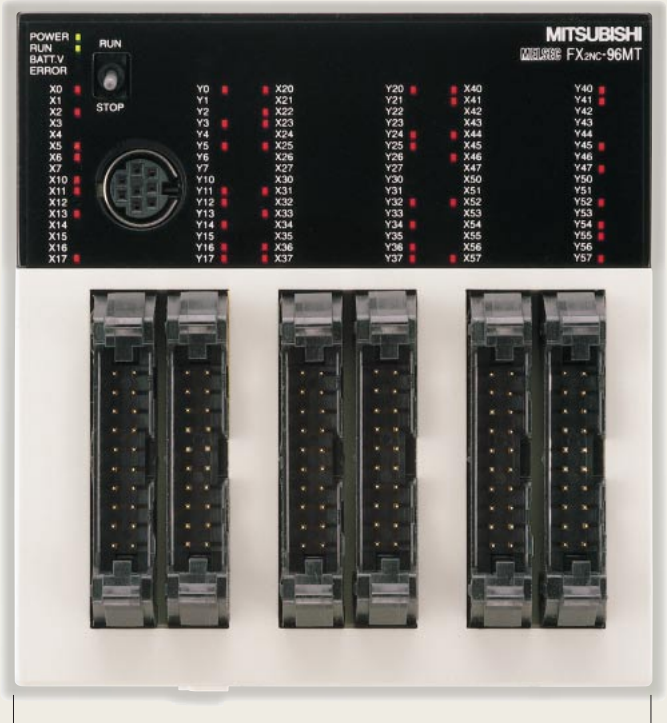
## FX2NC-96MT-DSS

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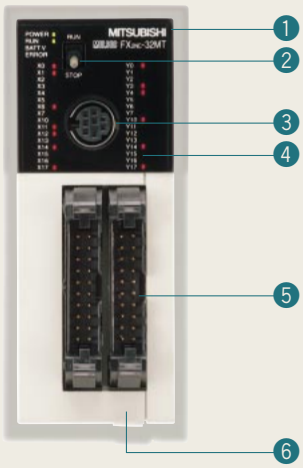
## Super Compact Body / Super Easy Connectors Facilitate Wiring




### 1. Built-in CPU and I/Os
The compact body has a built-in CPU and I/Os.

### 2. RUN/STOP Switch
The RUN/STOP switches run or stop the machine.

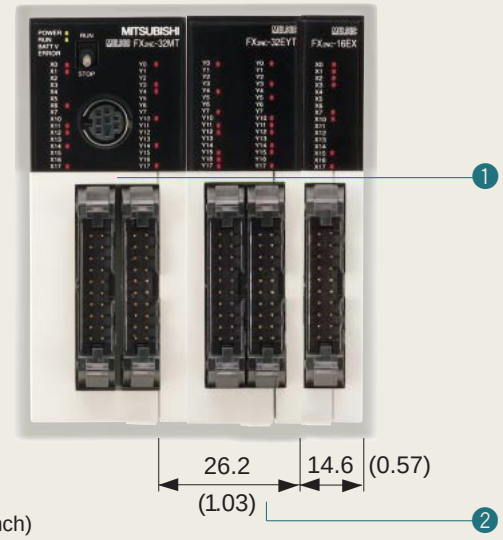
### 3. Programming Connector
You can share peripherals with FX series CPUs. It uses the same cable as the FX0, FX0S, FX0N, and FX2N.

### 4. I/O Display LED
Shows whether the I/O is On or Off.

### 5. Memory Board
You can use an optional memory board.

### 6. Power Supply Connector
Uses a 24V DC power supply.

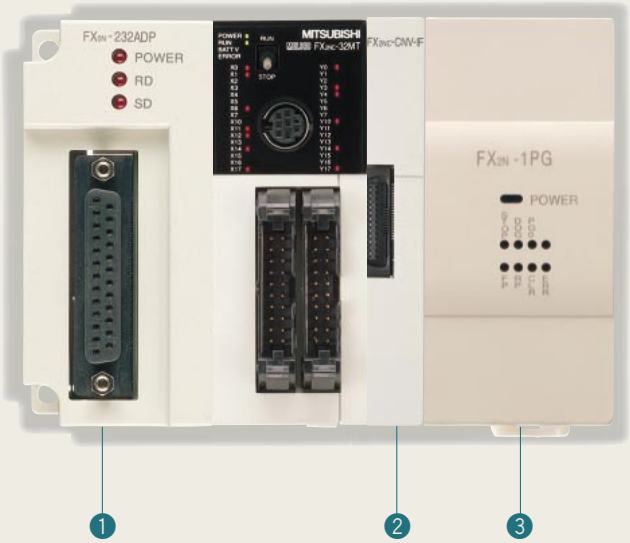
## Handles 256 I/Os / Connect Special Adapters and Blocks




Unit: mm (inch)

### 1. Base Unit
16-, 32-, 64-, and 96-point units will go on sale sequentially. (All are 24V DC power supply/transistor output types.)

### 2. Extension Blocks
Connect 16- or 32-point extension blocks to provide coverage of up to 256 points. The FX0N or FX2N extension blocks require FX2NC-CNV-IF interfaces.



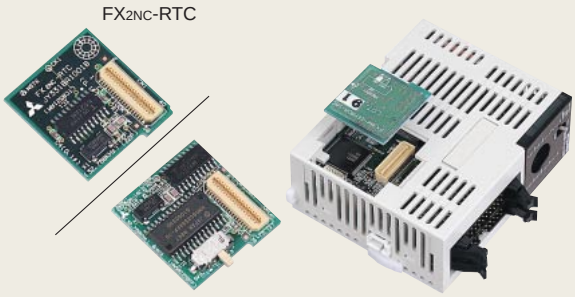

### 1. Special Adapters
You can use the special adapters for the FX0N.
● FX0N-232ADP (for RS-232C) ● FX0N-485ADP (for RS-485)

### 2. Interface for Extension Block Connections
This interface is for the extension blocks for the FX0N and FX2N and for the special extension block.
● Extension Block
The FX2NC, which can be connected to all machines for the FX0N and FX2N, is constructed solely of extension blocks. It does not take extension units.

### 3. Special Blocks
● Analog
FX2N-4AD: Analog input (4 channels)
FX2N-4DA: Analog output (4 channels)
FX2N-4AD-PT: For PT-100 (4 channels)
FX2N-4AD-TC: For thermocouples (4 channels)
FX0N-3A: Analog I/Os (3 channels)
● High-Speed Counter FX2N-1HC: Two-phase, 50kHz
● Positioning FX2N-1PG-E: One axis, 100Kbps
● MELSECNET/MINI interface FX0N-16NT: For twisted pair cable
● Programmable Cam Switch FX2N-1RM-E: Detects angle of rotation
● RS-232C Communications Interface FX2N-232IF: Asynchronous full duplex

# Features

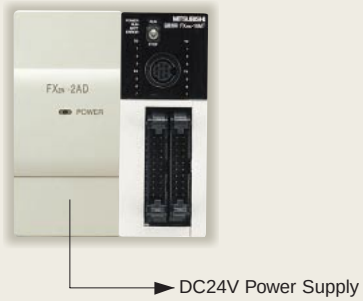
## Comprehensive Range of Optional Memory Boards (With real-time clock function)




Optional boards with clock function specially designed for the FX2NC series.
Board with clock function added to the sequencer only and board with integrated EEPROM memory and clock function are available.

**FX2NC-RTC:** Additional clock function only (Uses on-board RAM memory)
**FX2NC-EEPROM-4C:** 4K step EEPROM memory + clock function
**FX2NC-EEPROM16C:** 16K step EEPROM memory + clock function
**FX2NC-EEPROM-16:** 16K step EEPROM memory (no clock function)

## DC Power Unit (DC24V 2A)



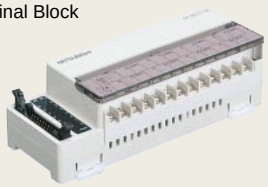

A DC power unit with the same system design as the sequencer. It can be used as a power source for DC24V model sequencers, special blocks or sensors

Soon to be released: **FX2N-20PSU**

Input voltage: AC85-264V 50/60Hz
Output voltage: DC24V ±10%
Output current: 2A (FX2N-20PSU)
Safety functions: Output current overload protector

## Wiring Components for Terminal Block, I/O Connector/ I/O Terminal Block

Terminal Block

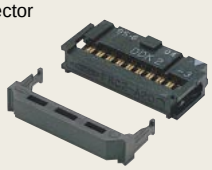


| Model | Input pins | Output pins | Remarks |
|---|---|---|---|
| FX-16E-TB/UL | 16 input or 16 output | | Connected directly to sequencer I/O terminals |
| FX-32E-TB/UL | 32 input or 32 output<br>Can be set up as 16 input and 16 output | | |
| FX-16EX-A1-TB/UL | 16 | – | AC100V signal input type |
| FX-16EYR-ES-TB/UL | – | 16 | Relay output type |
| FX-16EYS-ES-TB/UL | – | 16 | Triac output type |
| FX-16EYT-ESS-TB/UL | – | 16 | Transistor output type |

I/O Cable

| Model | Meters | Usage |
|---|---|---|
| FX-16E-500CAB-S | 5m | General purpose I/O cable (20-pin connector on one end of the unsheathed cable only). |
| FX-16E-150CAB | 1.5m | For use with FX-16/32E□□-TB terminal blocks<br>Flat cable (with sheathing) fitted with 20-pin connectors at both end. |
| FX-16E-300CAB | 3m | |
| FX-16E-500CAB | 5m | |
| FX-16E-150CAB-R | 1.5m | For use with FX-16/32E□□-TB/UL terminal blocks<br>Round, multi-core cable with 20-pin connectors at both ends. |
| FX-16E-300CAB-R | 3m | |
| FX-16E-500CAB-R | 5m | |
| FX-A32E-150CAB | 1.5m | Connector cable linking A-series A6TBXY36 connector/terminal block conversion unit and connector type I/O sequencer. |
| FX-A32E-300CAB | 3m | |
| FX-A32E-500CAB | 5m | |

I/O Connector



| Model & Configuration | | Applicable Electrical Cables |
|---|---|---|
| Mitsubishi Electric Model | Part (Dai-Ichi Denshi product) | Cable Size |
| FX2C-I/O-CON<br>For flat cable: 10 | Crimp connector: FRC2-A020-3T0S | AWG28 (0.1mm²)1.27 pitch 20 core |
| FX2C-I/O-CON-S<br>For unsheathed wires: 5-set | Housing: HU-200S2-001<br>Crimp connector: HU-411S | AWG22 (0.3mm²) |
| FX2C-I/O-CON-SA<br>For unsheathed wires: 5-set | Housing: HU-200S2-001<br>Crimp connector: HU-411SA | AWG20 (0.5mm²) |

Insulated cylindrical terminal

| Model (Phoenix Contact recommended) | Applicable Electrical Cables<br>Cable Size |
|---|---|
| AI 0.5-8 WH (Inside diameter of insulation: 2.6mm) | AWG22–20 (0.3–0.5mm²) |

## 1. Programming Capacity

8K step of built-in RAM. (Expandable to 16K steps using the optional memory board.)

## 2. Fast Operations

0.08μs for a basic instruction.

## 3. Lots of Instructions

27 basic instructions, two stepladder instructions, and 128 application instructions for a total of 298 instructions.

- Pulse output detection for positioning. Can use two PLSY or PLSR instructions simultaneously (20kHz/point or 10kHz/2 points).
- Pulse width modulation
- PID control instruction
- Square roots
- Matrix inputs
- Time-sharing I/Os

## 4. High-Speed Counter

Can get high-speed inputs.

- 1-Phase 60Hz: Two points, 10kHz: 4 points
- 2-Phase 30Hz: One point, 5kHz: 1 point

Also has instructions for the high-speed counter.

## 5. Basic Functions You Can Use

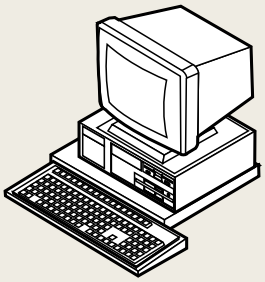
- Pulse catch/input interrupts
- Constant scans
- Register keywords
- Change programming while running

**FX2N equivalent CPU.**

## 1. For Writing Programs

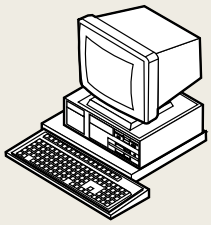
Uses the same peripherals as the FX series. Also uses the same cable as the FX0, FX0S, FX0N, and FX2N.

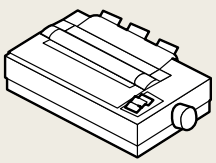
- Personal computer

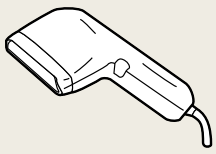


## 2. Human Machine Interface (HMI)

Can use anything from the compact FX-10DU through the color display F940GOT. Connections use the same cable as the FX0, FX0S, FX0N, and FX2N.







## 2. RS-485 Communications

- Parallel link: Transfers data between two base units.
- Computer link: Connects up to 16 base units through a computer host. (You can connect both FX0N and FX2N machines in a single system.)
- mple PC link: Transfers data among up to eight base units. can connect both FX0N, FX2N and A1FX machines in a single system.)

| FNC. No. | 1 | 2 | 3 | Details | |
|---|---|---|---|---|---|
| 61 | SER | Yes | Yes | Search - Search for data | |
| 62 | ABSD | Yes | | Absolute Drum Sequence - CAM switch control (absolute setting) | |
| 63 | INCD | | | Incremental Drum Sequence - CAM switch control (relative setting) | |
| 64 | TTMR | | | Teaching Timer - Measure duration of signal, use data to set timer | |
| 65 | STMR | | | Special Timer - Provide special timer functions | |
| 66 | ALT | | Yes | Alternate - Alternate state of bit device on receipt of input | |
| 67 | RAMP | | | Ramp - Calculate linear rate of change between data values | |
| 68 | ROTC | | | Rotary Table Control - Provide positioning control for rotary table | |
| 69 | SORT | | | Sort - Sort tabulated data | |
| 70 | TKY | Yes | | Ten Key - Read selected inputs as though coming from a ten-key keypad | |
| 71 | HKY | Yes | | Hexadecimal Key - Read selected inputs as though coming from a HEX keypad | |
| 72 | DSW | | | Digital Switch - Multiplex read of digital switches | |
| 73 | SEGD | | Yes | Seven Segment Decoder - Decode stored data to drive 7-segment display directly | |
| 74 | SEGL | | | Seven Segment With Latch - Multiplexed 7-segment display output | |
| 75 | ARWS | | | Arrow Switch - Create user-defined numeric data entry panel | |
| 76 | ASC | | | ASCII Code - Convert 8-character string to ASCII | |
| 77 | PR | | | Print - Output ASCII data to displays, etc. | |
| 78 | FROM | Yes | Yes | From - Read from special function block | |
| 79 | TO | Yes | Yes | To - Write to special function block | |
| 80 | RS | | | RS Communications - Serial communication control | |
| 81 | PRUN | Yes | Yes | Parallel Running - Octal data bit transfer | |
| 82 | ASCI | | Yes | ASCII Conversion - Convert from HEX to ASCII | |
| 83 | HEX | | Yes | Hex Conversion - Convert from ASCII to HEX | |
| 84 | CCD | | Yes | Check Code - Perform and end bit sum check | |
| 85 | VRRD | | Yes | Variable Read - Read analog values from FX2N-8AV-BD potentiometers | |
| 86 | VRSC | | Yes | Variable Scale - Read position values from FX2N-8AV-BD potentiometers | |
| 87 | | | | | |
| 88 | PID | | | PID Loop - Proportional, Integral, Derivative control loop | |
| 89 | | | | | |
| 118 | EBCD | Yes | Yes | Extended BCD - Convert floating point value to decimal value | NEW |
| 119 | EBIN | Yes | Yes | Extended Binary - Convert decimal value to floating point value | NEW |
| 120 | EADD | Yes | Yes | EADD - Add two floating point values | NEW |
| 121 | ESUB | Yes | Yes | ESUB - Subtract one floating point value from another | NEW |
| 122 | EMUL | Yes | Yes | EMUL - Multiply two floating point values | NEW |
| 123 | EDIV | Yes | Yes | EDIV- Divide one floating point value by another | NEW |
| 127 | ESQR | Yes | Yes | Extended SQR - Return the square root of a floating point value | NEW |
| 129 | INT | Yes | Yes | Integer - Convert a floating point value to an integer | NEW |
| 130 | SIN | Yes | Yes | Sine - SIN trigonometrical function | NEW |
| 131 | COS | Yes | Yes | Cosine - COS trigonometrical function | NEW |
| 132 | TAN | Yes | Yes | Tangent - TAN trigonometrical function | NEW |

| FNC. No. | 1 | 2 | 3 | Details | |
|---|---|---|---|---|---|
| 160 | TCMP | | Yes | Time Compare - Compare clock data | NEW |
| 161 | TZCP | | Yes | Time Zone Compare - Compare range of time data to one time value | NEW |
| 162 | TADD | | Yes | Time Add - Add two time values | NEW |
| 163 | TSUB | | Yes | Time Subtract - Subtract one time value from another | NEW |
| 166 | TRD | | | Time Read - Read time data | NEW |
| 167 | TWR | | | Time Write - Write time data | NEW |
| 170 | GRY | Yes | Yes | Gray - Convert to gray code | NEW |
| 171 | GBIN | Yes | Yes | Gray Binary - Reverse gray code conversion to binary | NEW |
| 224 | LD= | Yes | | Initial Comparison contact - active when (S1) = (S2) | NEW |
| 225 | LD> | Yes | | Initial Comparison contact - active when (S1) > (S2) | NEW |
| 226 | LD< | Yes | | Initial Comparison contact - active when (S1) < (S2) | NEW |
| 228 | LD<> | Yes | | Initial Comparison contact - active when (S1) ≠ (S2) | NEW |
| 229 | LD<= | Yes | | Initial Comparison contact - active when (S1) ≤ (S2) | NEW |
| 230 | LD>= | Yes | | Initial Comparison contact - active when (S1) ≥ (S2) | NEW |
| 232 | AND= | Yes | | Comparison contact in series - active when (S1) = (S2) | NEW |
| 233 | AND> | Yes | | Comparison contact in series - active when (S1) > (S2) | NEW |
| 234 | AND< | Yes | | Comparison contact in series - active when (S1) < (S2) | NEW |
| 236 | AND<> | Yes | | Comparison contact in series - active when (S1) ≠ (S2) | NEW |
| 237 | AND<= | Yes | | Comparison contact in series - active when (S1) ≤ (S2) | NEW |
| 238 | AND>= | Yes | | Comparison contact in series - active when (S1) ≥ (S2) | NEW |
| 240 | OR= | Yes | | Comparison contact in parallel - active when (S1) = (S2) | NEW |
| 241 | OR> | Yes | | Comparison contact in parallel - active when (S1) > (S2) | NEW |
| 242 | OR< | Yes | | Comparison contact in parallel - active when (S1) < (S2) | NEW |
| 244 | OR<> | Yes | | Comparison contact in parallel - active when (S1) ≠ (S2) | NEW |
| 245 | OR<= | Yes | | Comparison contact in parallel - active when (S1) ≤ (S2) | NEW |
| 246 | OR>= | Yes | | Comparison contact in parallel - active when (S1) ≥ (S2) | NEW |

1= Mnemonic 2= 32-bit Operation 3=Pulse Operation

# Dimensions

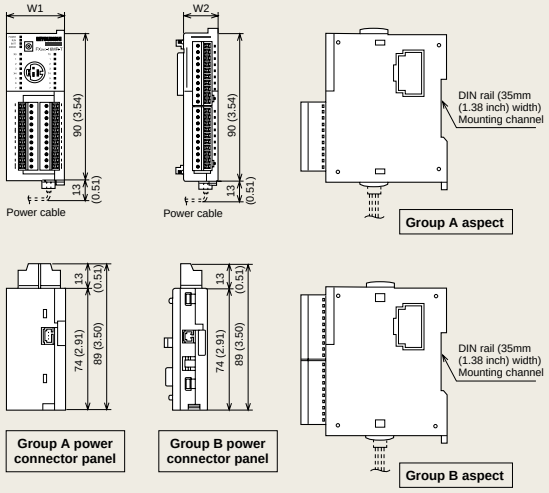
## External Dimensions

### Terminal Block Type

Unit: mm (inch)

| Group A | | |
|---|---|---|
| Model | W1 | Weight kg (lb) |
| FX2NC-16MR-T-DS | 35 | 0.25 (0.6) |

| Group B | | |
|---|---|---|
| Model | W2 | Weight kg (lb) |
| FX2NC-16EX-T-DS | 20.2 | 0.15 (0.3) |
| FX2NC-16EYR-T-DS | 24.2 | 0.2 (0.4) |

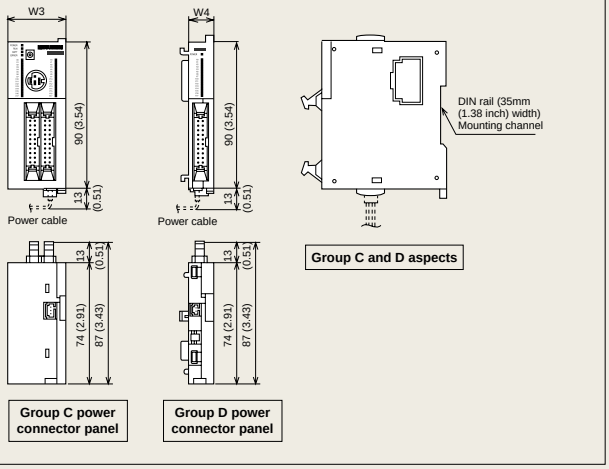



### Connector Type

Unit: mm (inch)

| Group C | | |
|---|---|---|
| Model | W3 | Weight kg (lb) |
| FX2NC-16MT-DSS | 35 | 0.2 (0.4) |
| FX2NC-32MT-DSS | 35 | 0.2 (0.4) |
| FX2NC-64MT-DSS | 60 | 0.35 (0.8) |
| FX2NC-96MT-DSS | 86 | 0.45 (0.8) |

| Group D | | |
|---|---|---|
| Model | W4 | Weight kg (lb) |
| FX2NC-16EX-DS | 14.6 | 0.15 (0.3) |
| FX2NC-16EYT-DSS | 14.6 | 0.15 (0.3) |
| FX2NC-32EX-DS | 26.2 | 0.2 (0.4) |
| FX2NC-32EYT-DSS | 26.2 | 0.2 (0.4) |




**Common items and accessories**
External color: Munsell 0.08GY/7.64/0.81
Accessories: FX2NC-100MPCB and FX2NC-100BPCB power cables are supplied with the base unit.
I/O serial number labels are supplied with extension blocks.
The FX2NC-10BPCB1 power cable is supplied with input extension blocks.

Note: Connector type products do not include connectors for second parties. Please select an I/O cable or connector from page 7 or obtain a compatible connector from another source.

## Connector Pin Layout

### Terminal Block Type

**FX2NC-16MR-T-DS**

| IN | OUT |
|---|---|
| X0 | Y0 |
| X1 | Y1 |
| X2 | Y2 |
| X3 | Y3 |
| COM | COM1 |
| - | - |
| X4 | Y4 |
| X5 | Y5 |
| X6 | Y6 |
| X7 | Y7 |
| COM | COM2 |

**FX2NC-16EX-T-DS**

| IN |
|---|
| X0 |
| X1 |
| X2 |
| X3 |
| X4 |
| X5 |
| X6 |
| X7 |
| COM |
| COM |
| X0 |
| X1 |
| X2 |
| X3 |
| X4 |
| X5 |
| X6 |
| X7 |
| COM |
| COM |

**FX2NC-16EYR-T-DS**

| OUT |
|---|
| Y0 |
| Y1 |
| Y2 |
| Y3 |
| Y4 |
| Y5 |
| Y6 |
| Y7 |
| COM1 |
| COM1 |
| Y0 |
| Y1 |
| Y2 |
| Y3 |
| Y4 |
| Y5 |
| Y6 |
| Y7 |
| COM2 |
| COM2 |

Recent numbers

### Connector Type

**FX2NC-16MT-DSS**

| IN | | OUT | |
|---|---|---|---|
| X0 | - | Y0 | - |
| X1 | - | Y1 | - |
| X2 | - | Y2 | - |
| X3 | - | Y3 | - |
| X4 | - | Y4 | - |
| X5 | - | Y5 | - |
| X6 | - | Y6 | - |
| X7 | - | Y7 | - |
| COM | COM | COM1 | COM1 |
| - | - | - | - |

Cutout

**FX2NC-32MT-DSS**

| IN | | OUT | |
|---|---|---|---|
| X0 | X10 | Y0 | Y10 |
| X1 | X11 | Y1 | Y11 |
| X2 | X12 | Y2 | Y12 |
| X3 | X13 | Y3 | Y13 |
| X4 | X14 | Y4 | Y14 |
| X5 | X15 | Y5 | Y15 |
| X6 | X16 | Y6 | Y16 |
| X7 | X17 | Y7 | Y17 |
| COM | COM | COM1 | COM1 |
| - | - | - | - |

**FX2NC-64MT-DSS**

| IN | | OUT | |
|---|---|---|---|
| X20 | X30 | Y20 | Y30 |
| X21 | X31 | Y21 | Y31 |
| X22 | X32 | Y22 | Y32 |
| X23 | X33 | Y23 | Y33 |
| X24 | X34 | Y24 | Y34 |
| X25 | X35 | Y25 | Y35 |
| X26 | X36 | Y26 | Y36 |
| X27 | X37 | Y27 | Y37 |
| COM | COM | COM2 | COM2 |
| - | - | - | - |

**FX2NC-96MT-DSS**

| IN | | OUT | |
|---|---|---|---|
| X40 | X50 | Y40 | Y50 |
| X41 | X51 | Y41 | Y51 |
| X42 | X52 | Y42 | Y52 |
| X43 | X53 | Y43 | Y53 |
| X44 | X54 | Y44 | Y54 |
| X45 | X55 | Y45 | Y55 |
| X46 | X56 | Y46 | Y56 |
| X47 | X57 | Y47 | Y57 |
| COM | COM | COM3 | COM3 |
| - | - | - | - |

**FX2NC-16EX-DS**

| IN | |
|---|---|
| X0 | X0 |
| X1 | X1 |
| X2 | X2 |
| X3 | X3 |
| X4 | X4 |
| X5 | X5 |
| X6 | X6 |
| X7 | X7 |
| COM | COM |
| - | - |

**FX2NC-32EX-DS**

| IN | |
|---|---|
| X0 | X0 |
| X1 | X1 |
| X2 | X2 |
| X3 | X3 |
| X4 | X4 |
| X5 | X5 |
| X6 | X6 |
| X7 | X7 |
| COM | COM |
| - | - |

**FX2NC-16EYT-DSS**

| IN | |
|---|---|
| Y0 | Y0 |
| Y1 | Y1 |
| Y2 | Y2 |
| Y3 | Y3 |
| Y4 | Y4 |
| Y5 | Y5 |
| Y6 | Y6 |
| Y7 | Y7 |
| COM1 | COM1 |
| - | - |

**FX2NC-32EYT-DSS**

| IN | |
|---|---|
| Y0 | Y0 |
| Y1 | Y1 |
| Y2 | Y2 |
| Y3 | Y3 |
| Y4 | Y4 |
| Y5 | Y5 |
| Y6 | Y6 |
| Y7 | Y7 |
| COM2 | COM2 |
| - | - |

Recent numbers

## FX2NC Series Specifications

| Product | | Model | Specifications | | | | |
|---|---|---|---|---|---|---|---|
| | | | Supply voltage | Input | | Output | |
| Base units | FX2NC series | FX2NC-16MR-T-DS | 24V DC +20% −15%, ripple 5% | 8 pts | 24V DC 7mA / 5mA | 8 pts | Relay 2A/pt |
| | | FX2NC-16MT-DSS | | 8 pts | | 8 pts | Transistor 0.1A/pt (1.6A/16 pts) |
| | | FX2NC-32MT-DSS | | 16 pts | | 16 pts | |
| | | FX2NC-64MT-DSS | | 32 pts | | 32 pts | |
| | | FX2NC-96MT-DSS | | 48 pts | | 48 pts | |
| Extension units/extension blocks | Extension blocks | FX2NC-16EX-T-DS | The control power supply is supplied from the base unit. Only the input block is supplied externally. | 16 pts | 24V DC 5mA | – | – |
| | | FX2NC-16EYR-T-DS | | – | – | 16 pts | Relay 2A/pt |
| | | FX2NC-16EX-DS | | 16 pts | 24V DC 5mA | – | – |
| | | FX2NC-16EYT-DSS | | – | – | 16 pts | Transistor 0.1A/pt |
| | | FX2NC-32EX-DS | | 32 pts | 24V DC 5mA | – | – |
| | | FX2NC-32EYT-DSS | | – | – | 32 pts | Transistor 0.1A/pt |
| | | FX0N-8ER-ES/UL | | 4 pts | 24V DC 5mA | 4 pts | Relay 2A/pt |
| | | FX0N-8EX-ES/UL | | 8 pts | | – | – |
| | | FX2N-16EX-ES/UL | | 16 pts | | – | – |
| | | FX0N-8EYR-ES/UL | | – | – | 8 pts | Relay 2A/pt |
| | | FX0N-8EYT-ESS/UL | | – | – | 8 pts | Transistor 0.5A/pt |
| | | FX2N-16EYR-ES/UL | | – | – | 16 pts | Relay 2A/pt |
| | | FX2N-16EYT-ESS/UL | | – | – | 16 pts | Transistor 0.5A/pt |
| Special extension equipment | Analog I/O blocks | FX0N-3A | Analog I/O block, 2 input channels, 8 bits, 1 output channel | | | | |
| | | FX0N-16NT | N-NET/MINI interface block (twisted wire) | | | | |
| | | FX2N-4DA | 4-channel analog output block | | | | |
| | | FX2N-4AD | 4-channel analog input block | | | | |
| | | FX2N-2DA | 2-channel analog output block | | | | |
| | | FX2N-2AD | 2-channel analog input block | | | | |
| | | FX2N-4AD-PT | Analog input block for 4-channel temperature sensor | | | | |
| | | FX2N-4AD-TC | Analog input block for 4-channel thermocouple sensor | | | | |
| | High-speed counter | FX2N-1HC | 2-phase 50kHz high-speed counter block | | | | |
| | Positioning block | FX2N-1PG-E | Positioning pulse output block, 100K pps | | | | |
| | Programmable cam switch | FX2N-1RM-E-SET | Angle of rotation detection unit | | | | |
| | Computer link | FX-485PC-IF | Interface for computer link | | | | |
| | External equipment communication interface | FX2N-232IF | Interface for RS-232C communications | | | | |
| | Extension interface unit | FX2NC-CNV-IF | Interface for connecting extension blocks for FX0N and FX2N and special extension blocks | | | | |
| | Interface units | FX-232AW | For RS-422/232C conversion (insulated) | | | | |
| | | FX-232AWC | For RS-422/232C conversion (insulated) | | | | |
| Cables | Power supply cables | FX2NC-100MPCB | Power supply cable for base unit 1m | | | | |
| | | FX2NC-100BPCB | Input power supply cable for extension input block 1m | | | | |
| | | FX2NC-10BPCB1 | Input power supply transmission cable for extension input block 0.1m | | | | |
| | Peripheral cables | FX2-232CAB | Data transfer cable (interface to personal computer 25 pins) 3m | | | | |
| | | FX2-232CAB-1 | Data transfer cable (interface to personal computer 9 pins) 3m | | | | |
| | | FX2-232CAB-2 | Data transfer cable (interface to personal computer 14 pins) 3m | | | | |
| | Cable adapters | FX-422AW0 | Connection cable for RS422 equipment (for insulation) 1.5m | | | | |
| | | FX-20P-CADP | For FX-20P-CAB, 0.3m | | | | |
| | Program cable | FX-20P-CADP | For indirectly connecting FX2NC-FX-10P to 20P, 1.5m | | | | |
| | Battery | FX2NC-32BL | For memory backup | | | | |
| | Memory board | FX2NC-EEPROM-16 | 16K steps of EEPROM memory | | | | |

**⚠ Safety Warning**

To ensure proper use of the products listed in this catalog, please be sure to read the instruction manual prior to use.

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L-173-9-C4309-A HI-9907 Printed in Japan (OKA)

New publication, effective Jul. 1999
Specifications subject to change without notice.