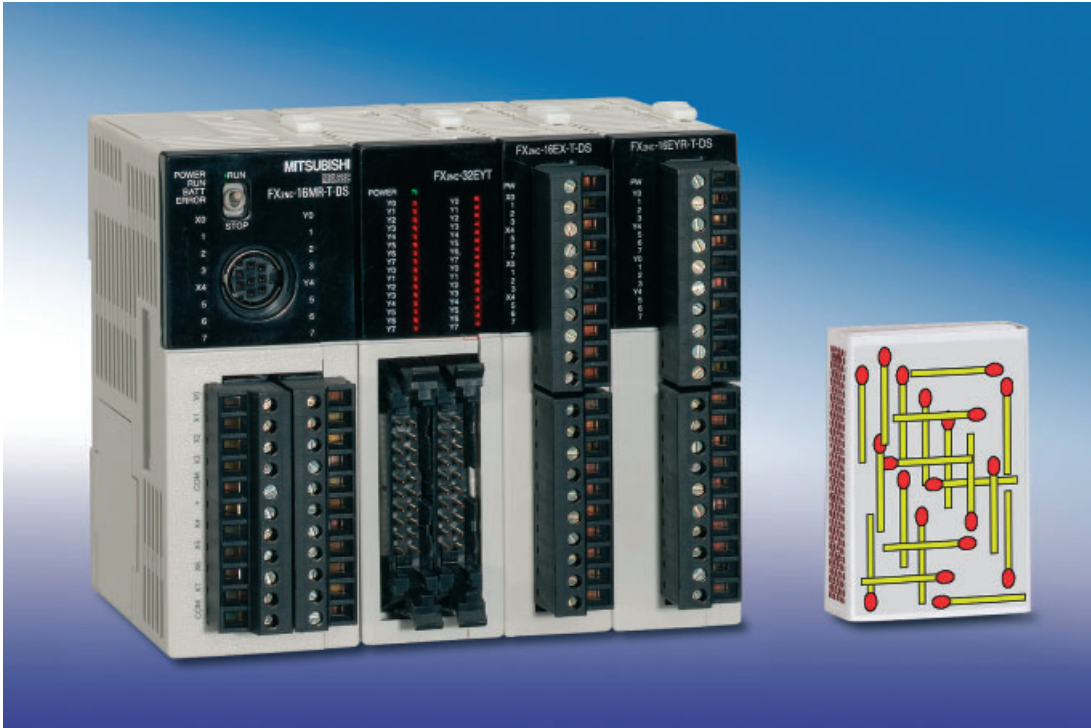


The New MELSEC FX2NC:

High-End and Ultra-Compact



The following units are currently available in the MELSEC FX2NC series:

- Base units 16/32/64 and 96 I/Os
- Expansion modules with 16 and 32 I/Os
- All special function modules of the FX family can be used

The MELSEC FX2NC controllers are particularly well suited for applications in these areas:

- Painting systems
- Bakery machines
- Motor industry and custom vehicles
- Custom machines
- Packaging machines
- Water processing and environmental technology
- Textiles machines
- Ship equipment
- Harvesting machines
- Handling machines

Powerful performance

The new FX2NC complements the popular FX2N high-end compact PLC and is the ideal choice for applications where there is not much space for the controller hardware. The smallest base unit with 8 digital inputs and 8 relay or transistor outputs takes up just 27% of the space required for a comparable FX2N unit – and yet the FX2NC incorporates all the features of the FX2N.

Enormous power reserves

With an execution cycle period of just 0.08µs per logical instruction, up to 8,000 data registers and 3,072 relays, a comprehensive instruction set with 152 commands and memory for up to 16K PLC program steps, the FX2NC is one of the fastest and most powerful PLC systems in its class. In fact, it puts quite a few larger

modular controller systems in the shade. It also provides internal high-speed counters with frequencies of up to 60kHz and signal pulse outputs with up to 20kHz. PID controllers with auto-tuning, floating-point math, trigonometry functions and an optional real-time clock are also part of the FX2NC series.

Maximum flexibility

The FX2NC base units all have a 24V DC power supply and are available in versions with 16, 32, 64 or 96 I/Os. They can be expanded up to a maximum configuration of 256 I/Os by adding expansion modules with 16 or 32 I/Os each. All expansion and special function modules of the FX family are supported by the FX2NC, including positioning and analog signal processing modules. The I/O connectors are arranged vertically on the front of the

unit and can be wired with ribbon cable or removable screw/spring terminals. Remote I/O interface modules are available for the ribbon cable variant.

I/O Range	16-256 I/Os
Memory	Up to 16,000 steps
Cycle period	0.08µs/log. instruction
Analog signal processing	Up to 32 I/Os
Resolution	8, 12 or 16 bits
Positioning	4 high-speed counters (60kHz) 2 signal pulse outputs (20kHz) 4 ext. high-speed counters (50kHz) 4 positioning modules
Networking	Ethernet, Profibus/DP, CC-Link, DeviceNet, AS-Interface, CANopen MELSEC I/O-Link, MELSEC FX Peer to Peer (PPN)
Power supply	24V DC
Dimensions/mm (W x H x D)	35-86 x 90 x 74

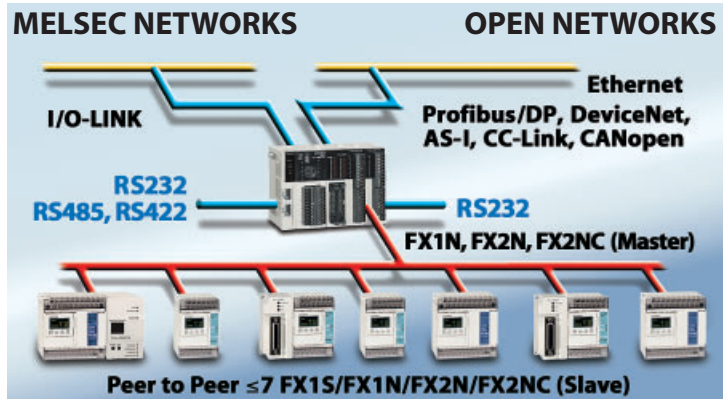
The New MELSEC FX2NC – Outstanding Communications Capabilities

Top features and benefits of the FX2NC:

- **Ultra-compact dimensions saves space**
- **Super-fast 0.08µs per log. instruction**
- **Flexible expansion options up to 256 I/Os**
- **Integrated positioning functions like high-speed counters up to 60kHz and signal pulse outputs up to 20kHz**
- **Powerful performance with extended instruction set, up to 152 and up to 16K steps program memory**
- **All special function modules of the FX family supported, e.g. for analog signal processing, temperature measurement and communications**
- **Fully compatible to the FX family**
- **Exceptional worldwide quality standards with CE, UL, cUL certifications**

Open in all directions

Just like the FX1N and FX2N, the FX2NC offers outstanding connectivity for all standard networks. It interfaces to your network through the communications modules of the FX2N series for Ethernet, Profibus-DP, AS-Interface, CC-Link, CANopen, DeviceNet and inexpensive proprietary networks. In addition to the integrated RS-422 port additional serial RS-232 and RS-485 ports and an SMS mobile network text messaging service module are also available to satisfy all



your communications needs. The two comprehensive programming software packages available for the FX2NC can also be used for

programming the entire MELSEC FX family: GX-IEC-Developer (for IEC1131 programming) and GX-Developer (LD, IL, SFC).

FX2NC Series Base Units

Model	FX2NC-16MT-DSS	FX2NC-16MR-T-DS	FX2NC-32MT-DSS	FX2NC-64MT-DSS	FX2NC-96MT-DSS
Power supply	24V DC	24V DC	24V DC	24V DC	24V DC
Connector	Ribbon cable	Terminals removable	Ribbon cable	Ribbon cable	Ribbon cable
Inputs	8	8	16	32	48
Outputs	8 transistor (0.1A)	8 relay (2A)	16 Transistor (0.1 A)	32 transistor (0.1A)	48 transistor (0.1A)
Dimensions (W x H x D)	35 x 90 x 74mm	35 x 90 x 74mm	35 x 90 x 74mm	60 x 90 x 74mm	86 x 90 x 74mm

Expansion Options for the FX2NC Series

Model	FX2NC-16EX-DS	FX2NC-16EYT-DSS	FX2NC-16EX-T-DS	FX2NC-16EYR-T-DSS	FX2NC-32EX-DS	FX2NC-32EYT-DSS
supply	Ribbon cable	Ribbon cable	Term. removable	Term. removable	Ribbon cable	Ribbon cable
Inputs	16	—	16	—	32	—
Outputs	—	16 transistor (0.1A)	—	16 relay (2 A)	—	32 Transistor (0,1 A)
Dimensions (W x H x D/mm)	14.6 x 90 x 74	14.6 x 90 x 74	20.2 x 90 x 74	24.2 x 90 x 74	26.2 x 90 x 74	26.2 x 90 x 74

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