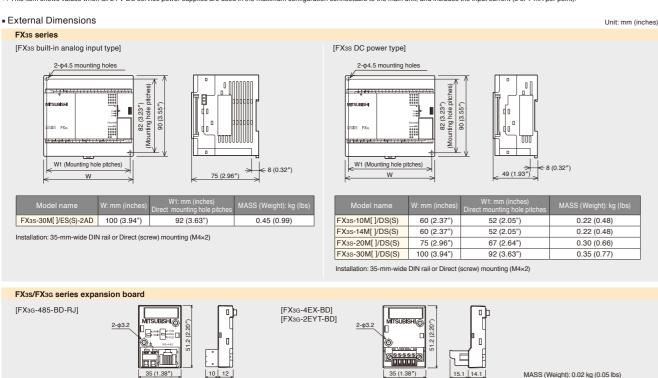
# PROGRAMMABLE CONTROLLERS

#### ■ Power Supply Specifications

Please refer to the FX3s series user's manual for other specifications

Item	FX3S-30M[]/ES(S)-2AD	FX3S-10M[]/DS(S)	FX3S-14M[]/DS(S)	FX3S-20M[]/DS(S)	FX3S-30M[]/DS(S)		
Supply voltage	100 to 240 V AC	24 V DC					
Allowable supply voltage range	85 to 264 V AC	20.4 to 26.4 V DC					
Rated frequency	50/60 Hz	-					
Allowable instantaneous power failure time	Operation can be continued upon occurrence of instantaneous power failure for 10 ms or less.	Operation can be continued upon occurrence of instantaneous power failure for 5 ms or less.					
Power fuse	250 V 1 A	250 V 1.6 A					
Rush current	15 A max. 5 ms or less/100 V AC 28 A max. 5 ms or less/200 V AC	20 A max. 1 ms or less/24 V DC					
Power consumption*	21 W	6 W	6.5 W	7 W	8.5 W		
24 V DC service power supply	400 mA	-					

\*: This item shows values when all 24 V DC service power supplies are used in the maximum configuration connectable to the main unit, and includes the input current (5 or 7 mA per point).



### ■ Product Specifications

Series		Model name	Power Supply	Input Specifications		Output Specifications		
Series	Number of points			Input type	Number of points	Output type		
AC power analog input built-in type  Main Unit  DC power supply type		FX3S-30MR/ES-2AD		16		14	Relay	
	FX3S-30MT/ES-2AD	100 to 240 V AC	16		14	Transistor(Sink)		
	analog input bant in typo	FX3S-30MT/ESS-2AD		16	Sink/Source	14	Transistor(Source)	
		FX3S-10MR/DS	- 24 V DC	6		4	Relay	
		FX3S-10MT/DS		6		4	Transistor(Sink)	
		FX3S-10MT/DSS		6		4	Transistor(Source)	
		FX3S-14MR/DS		8		6	Relay	
		FX3S-14MT/DS		8		6	Transistor(Sink)	
	DC nower supply type	FX3S-14MT/DSS		8		6	Transistor(Source)	
	DC power supply type	FX3S-20MR/DS		12		8	Relay	
		FX3S-20MT/DS		12		8	Transistor(Sink)	
		FX3S-20MT/DSS		12		8	Transistor(Source)	
		FX3S-30MR/DS		16		14	Relay	
		FX3S-30MT/DS		16		14	Transistor(Sink)	
		FX3S-30MT/DSS		16		14	Transistor(Source)	
Expansion board FX3g-485-BD-RJ  Expansion board FX3g-4EX-BD  FX3g-2EYT-BD		FX3G-485-BD-RJ	RJ45 connector type RS-485 communication					
		FX3G-4EX-BD	4 points of 24 V DC input expansion input board					
		FX3G-2EYT-BD	2 points of transistor output expansion output board					

- Ethernet is a trademark of Xerox Corporation in the United States.
   All other company names and product names used in this document are trademarks or regis

# MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

http://Global.MitsubishiElectric.com



Changes for the Better

# PROGRAMMABLE CONTROLLERS MELSEGF

• FX3s series analog input built-in type



FX3S-30MR/ES-2AD FX3S-30MT/ES-2AD FX3S-30MT/ESS-2AD

FX3s series DC power supply type



FX3S-10MR/DS FX3S-14MR/DS FX3S-10MT/DS FX3S-14MT/DS FX3S-10MT/DSS FX3S-14MT/DSS



FX3S-20MR/DS FX3S-20MT/DS FX3S-20MT/DSS



a greener tomorrow eco

FX3S-30MR/DS FX3S-30MT/DS FX3S-30MT/DSS

FX3s/FX3G series expansion boards



FX3G-485-BD-RJ



FX3G-4EX-BD



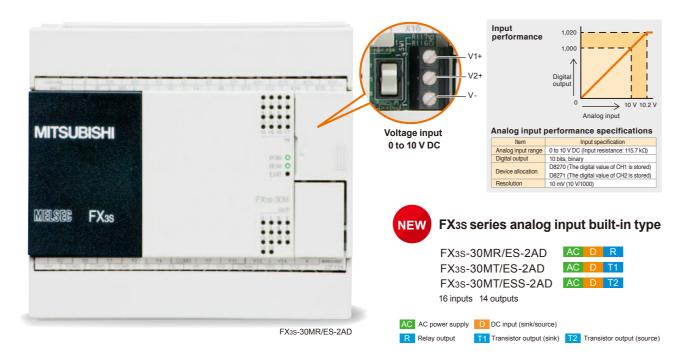


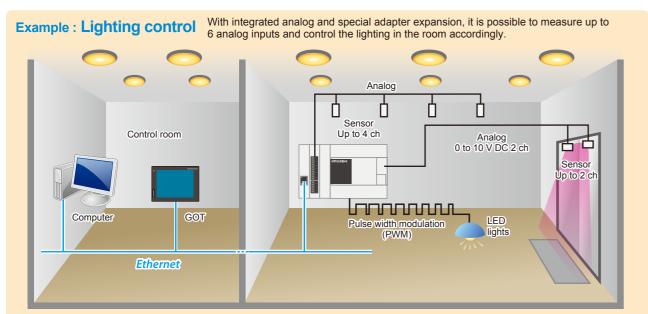


# Easier to use.

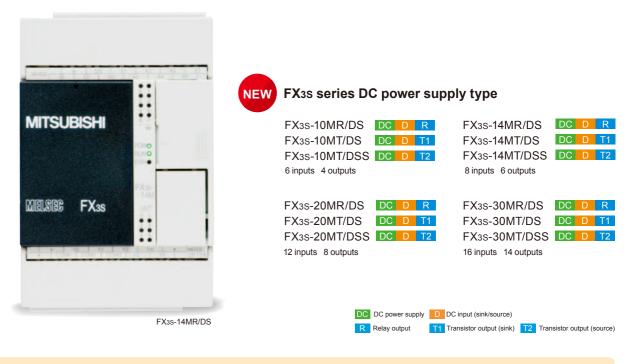
# FX3s series line-up expanded with analog input built-in type and DC power supply type!

# FX3S series analog input built-in type





# FX3s series DC power supply type



### FX3s series features

#### **High-speed operation**

- FX3s processes basic instructions in 0.21 µs, which is faster by approximately 3 times compared with



#### **Enhanced analog expandability**

- Analog expansion board can be connected.
- Special analog adapter can be connected.
- Analog input adapter for temperature sensor can be

#### Increased program capacity

- Up to 4,000 steps program capacity.
- 2,000 steps file register capacity.
- Up to 12,000 steps for comments In total, the built-in EEPROM of the FX3s can store up to 16,000 steps.



#### More instructions

- Supports inverter communication instructions.
- Supports floating point instructions.
- Supports 116 applied instructions (31 more

#### **Enhanced communication functions**

- Built-in USB (Mini-B) port and RS-422 port. 115.2 kbps serial communication. USB port supports 12 Mbps communication speed.



## Compatibility with global standards

- Conforms to the EC Directive and UL Standard.
- Conforms to the Radio Law in South Korea.
- Select between sink and source inputs.

### More functions available with new expansion boards! (for FX3s and FX3G)

# Easy wiring of RS-485 communication by RJ45 connector

Fast and fault-free wiring can be achieved using a LAN cable for RS-485 communication.



FX3S FX3G RS-485 communication expansion board FX3G-485-BD-RJ

Connecting with a RJ45 connector type

Mitsubishi inverter



# Compact options for a few additional I/O\*

4 inputs or 2 outputs can be added without any additional installation





FX3S FX3G

Input expansion board [4 inputs (sink/source)] FX3G-4EX-BD



FX3S FX3G

Output expansion board [2 outputs transistor (sink/source)] X3G-2EYT-BD



above for details on EX3s AC power supply type. (HIMF-L063)