

FX₀-10LDR PROGRAM LOADER USER'S GUIDE

Introduction

The FX₀-10LDR program loader connects to an FX₀-series PC and is designed to transfer programs between the EEPROM built into the FX₀ and an FX-series memory cassette installed on the FX₀-10LDR.

- The FX₀-10LDR can be used with either a memory cassette or the unit's own EEPROM memory.
- The program is transferred into the memory cassette if installed, and into the EEPROM of the FX₀-10LDR if no memory cassette is installed.
- The direction of transfer is either writing (from FX₀-10LDR memory to FX₀ memory) or reading (from FX₀ memory to FX₀-10LDR memory).

List of applicable functions

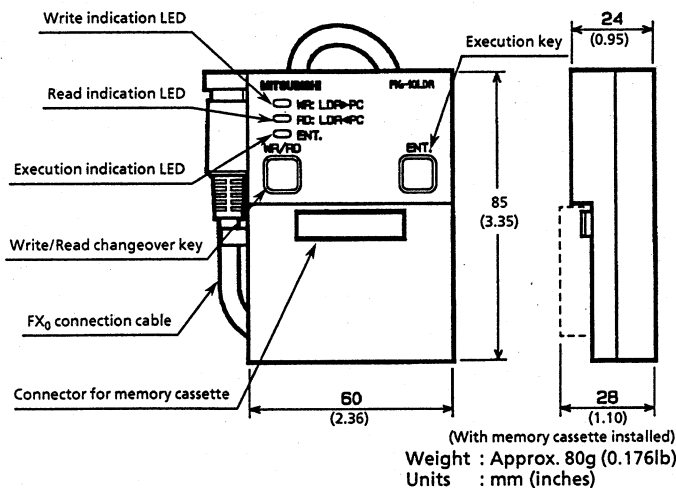
FX ₀ -10LDR memory type	PC running state	FX ₀ STOP		FX ₀ RUN	
		Write (WR)	Read (RD)	Write (WR)	Read (RD)
Without memory cassette (internal EEPROM)	Transfer direction	✓	✓	×	✓
FX-EEPROM-4, 8, 4C installed	Protect OFF	✓	✓	×	✓
	Protect ON	✓	×	×	×
FX-EPROM-8 installed	Transfer direction	✓	×	×	×
FX-RAM-8, 8C installed	Transfer direction	×	×	×	×

✓: Possible ×: Not possible

General specifications

Item	Specification
Supply voltage	DC 5V ± 5% (supplied from FX ₀ PC)
Current consumption	Max. 180 mA (during transfer from FX ₀ to FX-EEPROM-8)
Operating ambient temperature	0 to 40 °C
Operating ambient humidity	35 to 85 % RH (with no condensation)
Vibration resistance	Conforming to JIS C0911; 10 to 55 Hz, 0.1 mm (max. 1 G), 2 hours each along 3 axes
Impact resistance	Conforming to JIS C0912; 10 G, 3 times each along 3 axes
Ambient atmosphere	Free from corrosive gas and excessive dust particles

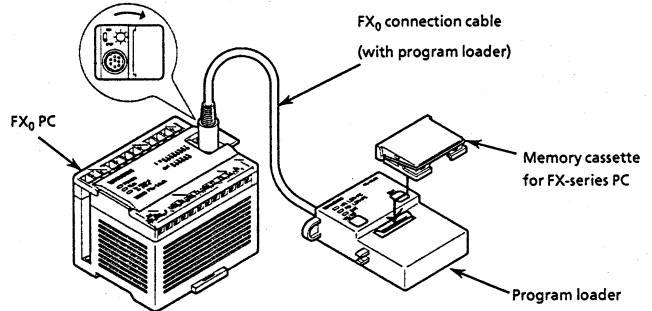
Overall dimensions and panel surface construction



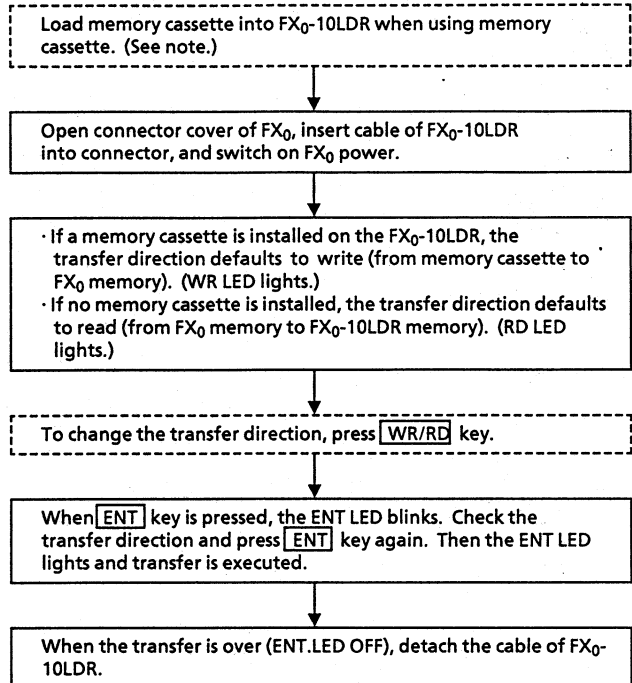
Functions of keys and LEDs

- WR/RD** key... To change the transfer direction (alternating between write and read each time it is pushed)
- ENT** key... To confirm the transfer, execute, or clear error display.
- WR** LED... Lit when the transfer direction is write. Blink when the transfer confirmation indicates an error.
- RD** LED... Lit when the transfer direction is read.
- ENT** LED... Lit while transfer is being executed.

Connection Diagram



Transfer operation procedure



Note : Do not load or unload the memory or remove the cable, while transfer is being executed. i.e. while "ENT" LED is lit.

Error display Displayed while transfer is being executed. The error display can be cleared by pressing ENT key. LED's blink.

	LED display	Cause	Remedy
Write	Write disabled [WR] LED lit [RD] LED lit [ENT] LED lit	FX ₀ is running FX-RAM-8, 8C installed in FX ₀ -10LDR.	Stop FX ₀ . RAM memory cannot be used. Change memory.
	Write faulty [WR] LED lit [RD] LED lit [ENT] LED lit	Verification results indicate no match. Communication with FX ₀ is defective.	Check FX ₀ PC and connection cable for abnormality.
Read	Read disabled [WR] LED lit [RD] LED lit [ENT] LED lit	EPROM cassette is installed in FX ₀ -10LDR. EEPROM installed in FX ₀ -10LDR with write-protect switch on.	Cannot read to EPROM. Change memory. Switch off write-protect switch.
	Read faulty [WR] LED lit [RD] LED lit [ENT] LED lit	FX-RAM-8, 8C installed in FX ₀ -10LDR. Verification results indicate no match. Communication with FX ₀ is defective.	RAM memory cannot be used. Change memory. Check FX ₀ PC and connection cable for abnormality.

