

List of Projects with Program Examples given in MELSEC-F FX3 Series Manual

Manual No.: JY997D71701A

Prerequisites for using sample ladder

■ Software version

Below are the supported software versions for these sample ladder.


- GX Works2: Version 1.545T and above
- GX Developer: Version 8.119Z and above
- FX Configurator-FP: Version 1.70 and above
- FX Configurator-EN-L: Version 1.40E and above

■ Changing the PLC type

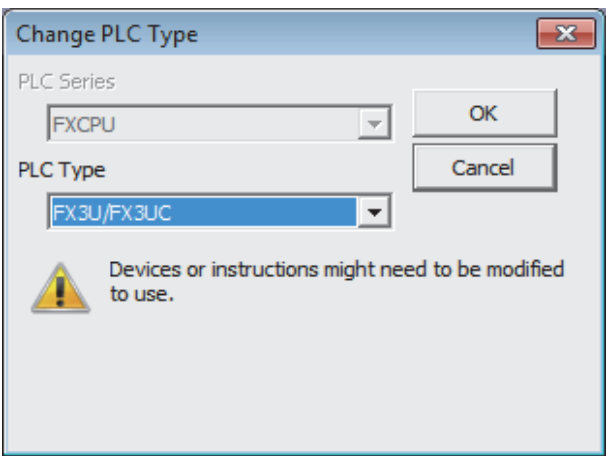
The sample ladder is provided with the model listed in the project name as shown below. When using with a model other than the provided project, change the PLC type using the engineering tool.

Example: With the following project name, the model is FX3U/FX3UC.

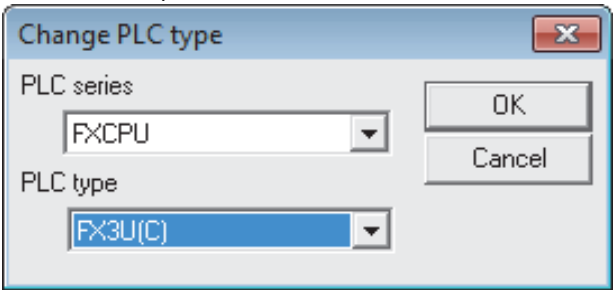
01_LD-FX3U_□□□_□□□_V100A_E

 [Project] -> [Change PLC Type]

● For GX Works2



● For GX Developer



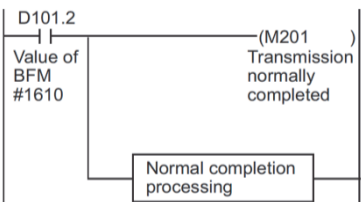
When using a GX Developer project with FX3S, refer to the TECHNICAL BULLETIN "HIME-T-P-0118 Limitations and precautions when using FX3S Series with GX Developer".

The provided project is not guaranteed to run with the user's system. Check the device assignments and parameters, etc., and adjust them to the user's system specifications before starting use.

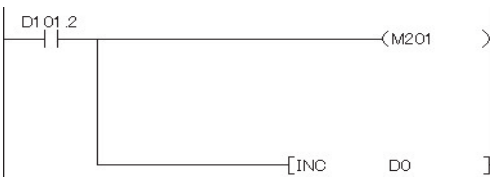
■ Sections where user program is created

As shown in section 1.1 below, the program examples given in the manual have sections where the user must arbitrarily create programs, such as the normal end process. With the project's program contents, the INC instruction will be described as shown in 1.2 below. Revise this as necessary before using.

1.1 Details described in manual



1.2 Program contents



Notice

This manual gives a list of projects for the program examples given in the FX3 Series Manual. The restrictions for using and the restrictions for combining the programmable controller, various function expansion boards, special adapters, and extension devices are not covered.

Always read the User's Manual for the target product before starting use.

GX Works2

● Main Unit

- Download file name: gw_ld-fx3_cpu_pid_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_CPU_PID_Ex_V100A.gxw	Program example of auto-tuning (step response method) and PID control	M. PID Instruction (FNC 88) 5.2 Program example of auto-tuning (step response method) and PID control
02_LD-FX3U_CPU_PID_Ex_V100A.gxw	Program example of auto-tuning (step response method)	M. PID Instruction (FNC 88) 5.3 Program example of auto-tuning (step response method)

- Download file name: gw_ld-fx3_cpu_pos_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Positioning Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_CPU_Pos_Ex_V100A.gxw	Programs for forward/reverse rotation	12.2 Programs for Forward/Reverse Rotation (Relay Ladder Program)
02_LD-FX3U_CPU_Pos_Ex_V100A.gxw	Positioning is executed according to the built-in positioning setting.	12.4 Positioning Using Batch Setting Method

● Analog

- Download file name: gw_ld-fx3_ad_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_4AD_Ex_V100A.gxw	Program example using the upper and lower limit detection function, upper and lower error status automatic transfer function, scale over status automatic transfer function, and error status automatic transfer function for FX3U-4AD	B. FX3U-4AD (4-channel Analog Input) FX3UC-4AD (4-channel Analog Input) 7.2 Program That Uses Convenient Functions
02_LD-FX3U_4AD_Ex_V100A.gxw	History of one hundred times of data for all channels for FX3U-4AD is read out to the data register.	B. FX3U-4AD (4-channel Analog Input) FX3UC-4AD (4-channel Analog Input) 7.3 Program That Uses Data History Function
03_LD-FX3U_4ADADP_Ex_V100A.gxw	Basic program example to read out analog conversion (A/D conversion) data for FX3U-4AD-ADP	C. FX3U-4AD-ADP (4-channel Analog Input) 4.8 Basic Program Example
04_LD-FX3U_4ADADP_Ex_V100A.gxw	Example for changing of voltage input characteristics for FX3U-4AD-ADP (For FX3U and FX3UC Series PLC)	C. FX3U-4AD-ADP (4-channel Analog Input) 5.1 Example: Changing of Voltage Input Characteristics 2. Example of program 1 (For FX3U/FX3UC Series PLC)
05_LD-FX3G_4ADADP_Ex_V100A.gxw	Example for changing of voltage input characteristics for FX3U-4AD-ADP (For FX3G/FX3GC Series PLC)	C. FX3U-4AD-ADP (4-channel Analog Input) 5.1 Example: Changing of Voltage Input Characteristics 3. Example of program 2 (For FX3S/FX3G/FX3GC Series PLC)
06_LD-FX3G_2ADBD_Ex_V100A.gxw	Basic program example to read out analog conversion (A/D conversion) data for FX3G-2AD-BD	D. FX3G-2AD-BD (2-channel Analog Input) 4.8 Basic Program Example
07_LD-FX3G_2ADBD_Ex_V100A.gxw	Example for changing of voltage input characteristics for FX3G-2AD-BD	D. FX3G-2AD-BD (2-channel Analog Input) 5.1 Example: Changing of Voltage Input Characteristics

- Download file name: gw_ld-fx3u_8ad_ex_v100a_e.zip

Manual with program example: FX2N-8AD ANALOG INPUT BLOCK USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_8AD_Ex_V100A.gxw	Example of program to take analog data to the PLC using the FX2N-8AD	10. Example program

- Download file name: gw_ld-fx3_da_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_4DA_Ex_V100A.gxw	Program example using the disconnection detection function, upper and lower limit value function, correction function using load resistance, and status automatic transfer function for FX3U-4DA	E. FX3U-4DA (4-channel Analog Output) 8.2 Example of Program using Useful Functions
02_LD-FX3U_4DA_Ex_V100A.gxw	Program example for table output operation (Pattern Output Operation) for FX3U-4DA	E. FX3U-4DA (4-channel Analog Output) 8.3 Example of Program for Table Output Operation (Pattern Output Operation)

- Download file name: gw_ld-fx3_a_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_3AADP_Ex_V100A.gxw	Basic program example to input/output analog conversion data for FX3U-3A-ADP	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 4.12 Basic Program Example
02_LD-FX3U_3AADP_Ex_V100A.gxw	Basic program example to input/output analog conversion data for FX3U-3A-ADP (Bit specification for word device)	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 4.12 Basic Program Example
03_LD-FX3U_3AADP_Ex_V100A.gxw	Example for changing of voltage input characteristics for FX3U-3A-ADP (For FX3U and FX3UC PLCs)	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 5.1 Example: Changing of Voltage Input Characteristics 2. Example of program 1 (FX3U/FX3UC Series PLC)
04_LD-FX3G_3AADP_Ex_V100A.gxw	Example for changing of voltage input characteristics for FX3U-3A-ADP (For FX3S, FX3G, and FX3GC PLCs)	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 5.1 Example: Changing of Voltage Input Characteristics 3. Example of program 2 (FX3S/FX3G/FX3GC Series PLC)

- Download file name: gw_ld-fx3_4adtcadp_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_4ADTCADP_Ex_V100A.gxw	Basic program example to read out the temperature measurement data for FX3U-4AD-TC-ADP	K. FX3U-4AD-PNK-ADP (4-channel Resistance Thermometer Data Input) 4.9 Basic Program Example

- Download file name: gw_ld-fx3u_4lc_ex_v100a_e.zip

Manual with program example: FX3U-4LC USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_4LC_Ex_V100A.gxw	Example of standard PID control program	9.2 Example of a Program for PID Control
02_LD-FX3U_4LC_Ex_V100A.gxw	Example of heating-cooling PID control program	9.3 Example of a Program for Heating/Cooling PID Control

- Positioning

- Download file name: gw_ld-fx3u_1pg_ex_v100a_e.zip

Manual with program example: FX3U-1PG USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_1PG_Ex_V100A.gxw	Reciprocal operation using 1-speed positioning operation, dog-type mechanical home position return operation, JOG operation	10. Program Example

- Download file name: gw_ld-fx3u_10pg_ex_v100a_e.zip

Manual with program example: FX2N-10PG USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_10PG_Ex_V100A.gxw	Fixed-feed operation 1 (1-speed positioning)	9.2 Length feed operation (1-speed positioning)
02_LD-FX3U_10PG_Ex_V100A.gxw	Multi-speed operation (table operation)	9.3 Multi-speed operation (table operation)

- Download file name: gw_ld-fx3u_20ssch_ex_v100a_e.zip

Manual with program example: FX3U-20SSC-H USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_20SSCH_Ex_V100A.gxw ^{*1}	Mechanical home position return, JOG operation, 1-speed positioning operation, multi-speed operation [table operation (independent)], arc interpolation operation [table operation (simultaneous)]	12. Program Example

^{*1} The FX Configurator-FP data listed in the manual is "01_LD-FX3U_20SSCH_Ex_V100A.fsn".

- High-speed counter

- Download file name: gw_ld-fx3u_2hc_ex_v100a_e.zip

Manual with program example: FX3U-2HC USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_2HC_Ex_V100A.gxw	Program example to control "Count permit" and "Compared output permit"	6. Example Program

- Information/network

- Download file name: gw_ld-fx3_datacom_ex_v100a_e.zip

Manual with program example: FX SERIES USER'S MANUAL - Data Communication Edition

Project name	Contents	Section with program example
01_LD-FX3U_DataCom_Ex_V100A.gxw	Simple N:N Network function (master station setting program)	B. N:N Network 8.1.4 Setting program for master station
02_LD-FX3U_DataCom_Ex_V100A.gxw	Simple N:N Network function (local station (Station No. 1) setting program)	B. N:N Network 8.1.5 Setting program for slave station (No. 1)
03_LD-FX3U_DataCom_Ex_V100A.gxw	Simple N:N Network function (local station (Station No. 2) setting program)	B. N:N Network 8.1.6 Setting program for slave station (No. 2)
04_LD-FX3U_DataCom_Ex_V100A.gxw	Basic example for inverter operation monitor, operation control, and parameters (System to link one inverter)	E. Inverter Communication 10.1 Practical Example 1
05_LD-FX3U_DataCom_Ex_V100A.gxw	Basic example for inverter operation monitor, operation control, and parameters (System to link two inverters)	E. Inverter Communication 10.2 Practical Example 2
06_LD-FX3U_DataCom_Ex_V100A.gxw	Example of printing with RS instruction (RS-232C connection)	F. Non-Protocol Communication (RS/RS2 Instruction) 7.1 Example of Printing Using RS Instruction (Using RS-232C Connection)
07_LD-FX3U_DataCom_Ex_V100A.gxw	Example of printing with RS2 instruction (RS-232C connection)	F. Non-Protocol Communication (RS/RS2 Instruction) 9.1 Example of Printing Using RS2 Instruction (Using RS-232C Connection)

- Download file name: gw_ld-fx3_modbus_ex_v100a_e.zip

Manual with program example: FX3G/FX3U/FX3GC/FX3UC SERIES USER'S MANUAL - MODBUS Serial Communication Edition

Project name	Contents	Section with program example
01_LD-FX3U_MODBUS_Ex_V100A.gxw	Up to eight PLC device ranges are mapped to the MODBUS Device Address range in a user defined order.	9.4 User defined MODBUS Device Address Assignment
02_LD-FX3U_MODBUS_Ex_V100A.gxw	Example of program for coil read, hold register read, coil read, register write, and error process routine (master setting program)	10.2 Creating Programs for the Master Station
03_LD-FX3U_MODBUS_Ex_V100A.gxw	Executes in the following order: coil read, hold register read, coil read, register write, and error process routine (master setting program)	11.1 Setting Program for Master Station
04_LD-FX3U_MODBUS_Ex_V100A.gxw	Executes the communication parameter setting at the slave side.	11.2 Setting Program for Slave Station

- Download file name: gw_ld-fx3_16cclm_ex_v100a_e.zip

Manual with program example: FX3U-16CCL-M USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the remote I/O station	12.1.3 Setting of parameters
02_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication between the master station and the remote I/O station	12.1.4 Creating a program for communication
03_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the remote device station	13.1.4 Setting of parameters
04_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication between the master station and the remote device station (When Remote Net Ver. 1 Mode is used)	13.1.5 Creating a program for communication
05_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the remote device station	13.2.4 Setting of parameters
06_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication between the master station and the remote device station (When Remote Net Ver. 2 Mode is used)	13.2.5 Creating a program for communication
07_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the remote device station	13.3.4 Setting of parameters
08_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication between the master station and the remote device station (When Remote Net Additional Mode is used)	13.3.5 Creating a program for communication
09_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the intelligent device station	14.1.4 Setting of parameters
10_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication between the master station and the intelligent device station (When Remote Net Ver. 1 Mode is used)	14.1.5 Creating a program for communication
11_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the intelligent device station	14.2.4 Setting of parameters
12_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication between the master station and the intelligent device station (When Remote Net Ver. 2 Mode is used)	14.2.5 Creating a program for communication

- Download file name: gw_ld-fx3_16cclm_ex_v100a_e.zip

Manual with program example: FX3U-16CCL-M USER'S MANUAL

Project name	Contents	Section with program example
13_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the intelligent device station	14.3.4 Setting of parameters
14_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication between the master station and the intelligent device station (When Remote Net Additional Mode is used)	14.3.5 Creating a program for communication
15_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the remote I/O station, remote device station, and intelligent device station	15.1.6 Setting of parameters
16_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication in compound system (When Remote Net Ver. 1 Mode is used)	15.1.7 Creating a program for communication
17_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the remote I/O station, remote device station, and intelligent device station	15.2.6 Setting of parameters
18_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication in compound system (When Remote Net Ver. 2 Mode is used)	15.2.7 Creating a program for communication
19_LD-FX3U_16CCLM_Ex_V100A.gxw	Program example of parameter setup to perform a data link with the remote I/O station, remote device station, and intelligent device station	15.3.6 Setting of parameters
20_LD-FX3U_16CCLM_Ex_V100A.gxw	Example of communication in compound system (When Remote Net Additional Mode is used)	15.3.7 Creating a program for communication

- Download file name: gw_ld-fx3_64ccl_ex_v100a_e.zip

Manual with program example: FX3U-64CCL USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_64CCL_Ex_V100A.gxw	Communication with remote input and remote output (Sample program on station No. 1 side)	8.3 FX3G/FX3U/FX3UC PLC program example 1) Sample program for station number 1
02_LD-FX3U_64CCL_Ex_V100A.gxw	Communication with remote input and remote output (Sample program on station No. 5 side)	8.3FX3G/FX3U/FX3UC PLC program example 2) Sample program for station number 5

- Download file name: gw_ld-fx3u_enetl_ex_v100a_e.zip

Manual with program example: FX3U-ENET-L USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_ENETL_Ex_V100A.gxw	Program example to open and close a connection with an external device from the Ethernet module	5.6.1 Active open processing/close processing - Program example for the unit No. 1
02_LD-FX3U_ENETL_Ex_V100A.gxw	Program example to open and close a connection with an external device from the Ethernet module (Program example when [Open settings] in parameter setting for Ethernet module by FX3U-ENET-L setting tool is not used)	5.6.1 Active open processing/close processing - Program example for the unit No. 1 A program example when "Open settings" is not provided in the parameter settings for the Ethernet module using FX Configurator-EN-L.
03_LD-FX3U_ENETL_Ex_V100A.gxw ^{*1}	Program example to open and close a connection with the Ethernet module from an external device	5.6.2 Passive open processing/close processing
04_LD-FX3U_ENETL_Ex_V100A.gxw	Program example of open processing/close processing in UDP/IP	5.6.3 UDP/IP open processing/close processing
05_LD-FX3U_ENETL_Ex_V100A.gxw ^{*2}	Fixed buffer communication program example of sending control method (with the procedure exist control method)	6.5.2 Fixed buffer communication program example (with the procedure exist control method) (Send program)
06_LD-FX3U_ENETL_Ex_V100A.gxw ^{*3}	Fixed buffer communication program example of receiving control method (with the procedure exist control method)	6.5.2 Fixed buffer communication program example (with the procedure exist control method) (Receive program)
07_LD-FX3U_ENETL_Ex_V100A.gxw	How to send e-mail using sequence program	10.7 Sending E-mail (Attached Files) by the PLC

*1 The FX Configurator-EN-L data listed in the manual is "03_LD-FX3U_ENETL_Ex_V100A.fel".

*2 The FX Configurator-EN-L data listed in the manual is "05_LD-FX3U_ENETL_Ex_V100A.fel".

*3 The FX Configurator-EN-L data listed in the manual is "06_LD-FX3U_ENETL_Ex_V100A.fel".

- Download file name: gw_ld-fx3_sensorsoln_ex_v100a_e.zip

Manual with program example: FX3U-128ASL-M USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_SensorSoln_Ex_V100A.gxw	Example of sample program for clearing error with the error flag clear command	8.2 Error Flag Clear Command Output Program Example
02_LD-FX3U_SensorSoln_Ex_V100A.gxw	Example of sample program for executing address automatic recognition with the automatic address recognition command	8.3 Automatic Address Detection Command Output Program Example

● Data collection

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Manual with program example: FX3U-CF-ADP USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_CFADP_Ex_100A.gxw	Additional writing to CF-ADP internal buffer	9.2 Program Example 1
02_LD-FX3U_CFADP_Ex_100A.gxw	Additional writing to file (FILE****) in CompactFlash™ card	9.3 Program Example 2
03_LD-FX3U_CFADP_Ex_100A.gxw	Reading error codes and error code information (flag)	9.4 Program Example 3

- Main Unit

- Download file name: gd_ld-fx3_cpu_pid_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_CPU_PID_Ex_V100A	Program example of auto-tuning (step response method) and PID control	M. PID Instruction (FNC 88) 5.2 Program example of auto-tuning (step response method) and PID control
02_LD-FX3U_CPU_PID_Ex_V100A	Program example of auto-tuning (step response method)	M. PID Instruction (FNC 88) 5.3 Program example of auto-tuning (step response method)

- Download file name: gd_ld-fx3_cpu_pos_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Positioning Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_CPU_Pos_Ex_V100A	Programs for forward/reverse rotation	12.2 Programs for Forward/Reverse Rotation (Relay Ladder Program)
02_LD-FX3U_CPU_Pos_Ex_V100A	Positioning is executed according to the built-in positioning setting.	12.4 Positioning Using Batch Setting Method

- Analog

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Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_4AD_Ex_V100A	Program example using the upper and lower limit detection function, upper and lower error status automatic transfer function, scale over status automatic transfer function, and error status automatic transfer function for FX3U-4AD	B. FX3U-4AD (4-channel Analog Input) FX3UC-4AD (4-channel Analog Input) 7.2 Program That Uses Convenient Functions
02_LD-FX3U_4AD_Ex_V100A	History of one hundred times of data for all channels is read out to the data register.	B. FX3U-4AD (4-channel Analog Input) FX3UC-4AD (4-channel Analog Input) 7.3 Program That Uses Data History Function
03_LD-FX3U_4ADADP_Ex_V100A	Basic program example to read out analog conversion (A/D conversion) data of FX3U-4AD-ADP	C. FX3U-4AD-ADP (4-channel Analog Input) 4.8 Basic Program Example
04_LD-FX3U_4ADADP_Ex_V100A	Example for changing of voltage input characteristics of FX3U-4AD-ADP (For FX3U/ FX3UC Series PLC)	C. FX3U-4AD-ADP (4-channel Analog Input) 5.1 Example: Changing of Voltage Input Characteristics 2. Example of program 1 (For FX3U/FX3UC Series PLC)
05_LD-FX3G_4ADADP_Ex_V100A	Example for changing of voltage input characteristics of FX3U-4AD-ADP (For FX3G/FX3GC Series PLC)	C. FX3U-4AD-ADP (4-channel Analog Input) 5.1 Example: Changing of Voltage Input Characteristics 3. Example of program 2 (For FX3S/FX3G/FX3GC Series PLC)
06_LD-FX3G_2ADBD_Ex_V100A	Basic program example to read out analog conversion (A/D conversion) data of FX3G-2AD-BD	D. FX3G-2AD-BD (2-channel Analog Input) 4.8 Basic Program Example
07_LD-FX3G_2ADBD_Ex_V100A	Example for changing of voltage input characteristics of FX3G-2AD-BD	D. FX3G-2AD-BD (2-channel Analog Input) 5.1 Example: Changing of Voltage Input Characteristics

- Download file name: gd_ld-fx3u_8ad_ex_v100a_e.zip

Manual with program example: FX2N-8AD ANALOG INPUT BLOCK USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_8AD_Ex_V100A	Example of program to take analog data to the PLC using the FX2N-8AD	10. Example program

- Download file name: gd_ld-fx3_da_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_4DA_Ex_V100A	Program example using the disconnection detection function, upper and lower limit value function, correction function using load resistance, and status automatic transfer function for FX3U-4DA	E. FX3U-4DA (4-channel Analog Output) 8.2 Example of Program using Useful Functions
02_LD-FX3U_4DA_Ex_V100A	Program example for table output operation (Pattern Output Operation) for FX3U-4DA	E. FX3U-4DA (4-channel Analog Output) 8.3 Example of Program for Table Output Operation (Pattern Output Operation)

- Download file name: gd_ld-fx3_a_ex_v100a_e.zip

Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_3AADP_Ex_V100A	Basic program example to input/output analog conversion data for FX3U-3A-ADP	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 4.12 Basic Program Example
02_LD-FX3U_3AADP_Ex_V100A	Basic program example to input/output analog conversion data for FX3U-3A-ADP (Bit specification for word device)	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 4.12 Basic Program Example
03_LD-FX3U_3AADP_Ex_V100A	Example for changing of voltage input characteristics for FX3U-3A-ADP (For FX3U and FX3UC PLCs)	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 5.1 Example: Changing of Voltage Input Characteristics 2. Example of program 1 (FX3U/FX3UC Series PLC)
04_LD-FX3G_3AADP_Ex_V100A	Example for changing of voltage input characteristics for FX3U-3A-ADP (For FX3S, FX3G, and FX3GC PLCs)	H. FX3U-3A-ADP (2-channel Analog Input, 1-channel Analog Output) 5.1 Example: Changing of Voltage Input Characteristics 3. Example of program 2 (FX3S/FX3G/FX3GC Series PLC)

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Manual with program example: FX3S/FX3G/FX3GC/FX3U/FX3UC SERIES USER'S MANUAL - Analog Control Edition

Project name	Contents	Section with program example
01_LD-FX3U_4ADTCADP_Ex_V100A	Basic program example to read out the temperature measurement data of FX3U-4AD-TC-ADP	FX3U-4AD-PNK-ADP (4-channel Resistance Thermometer Data Input) 4.9 Basic Program Example

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Manual with program example: FX3U-4LC USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_4LC_Ex_V100A	Example of standard PID control program	9.2 Example of a Program for PID Control
02_LD-FX3U_4LC_Ex_V100A	Example of heating-cooling PID control program	9.3 Example of a Program for Heating/Cooling PID Control

● Positioning

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Manual with program example: FX3U-1PG USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_1PG_Ex_V100A	Reciprocal operation using 1-speed positioning operation, dog-type mechanical home position return operation, JOG operation	10. Program Example

- Download file name: gd_ld-fx3u_10pg_ex_v100a_e.zip

Manual with program example: FX2N-10PG USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_10PG_Ex_V100A	Fixed-feed operation 1 (1-speed positioning)	9.2 Length feed operation (1-speed positioning)
02_LD-FX3U_10PG_Ex_V100A	Multi-speed operation (table operation)	9.3 Multi-speed operation (table operation)

- Download file name: gd_ld-fx3u_20ssch_ex_v100a_e.zip

Manual with program example: FX3U-20SSC-H USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_20SSCH_Ex_V100A ^{*1}	Mechanical home position return, JOG operation, 1-speed positioning operation, multi-speed operation [table operation (independent)], arc interpolation operation [table operation (simultaneous)]	12. Program Example

^{*1} The FX Configurator-FP data listed in the manual is "01_LD-FX3U_20SSCH_Ex_V100A.fsn".

● High-speed counter

- Download file name: gd_ld-fx3u_2hc_ex_v100a_e.zip

Manual with program example: FX3U-2HC USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_2HC_Ex_V100A	Program example to control "Count permit" and "Compared output permit"	6. Example Program

● Information/network

- Download file name: gd_ld-fx3_datacom_ex_v100a_e.zip

Manual with program example: FX SERIES USER'S MANUAL - Data Communication Edition

Project name	Contents	Section with program example
01_LD-FX3U_DataCom_Ex_V100A	Simple N:N Network function (master station setting program)	B. N:N Network 8.1.4 Setting program for master station
02_LD-FX3U_DataCom_Ex_V100A	Simple N:N Network function (local station (Station No. 1) setting program)	B. N:N Network 8.1.5 Setting program for slave station (No. 1)
03_LD-FX3U_DataCom_Ex_V100A	Simple N:N Network function (local station (Station No. 2) setting program)	B. N:N Network 8.1.6 Setting program for slave station (No. 2)
04_LD-FX3U_DataCom_Ex_V100A	Basic example for inverter operation monitor, operation control, and parameters (System to link one inverter)	E. Inverter Communication 10.1 Practical Example 1
05_LD-FX3U_DataCom_Ex_V100A	Basic example for inverter operation monitor, operation control, and parameters (System to link two inverters)	E. Inverter Communication 10.2 Practical Example 2
06_LD-FX3U_DataCom_Ex_V100A	Example of printing with RS instruction (RS-232C connection)	F. Non-Protocol Communication (RS/RS2 Instruction) 7.1 Example of Printing Using RS Instruction (Using RS-232C Connection)
07_LD-FX3U_DataCom_Ex_V100A	Example of printing with RS2 instruction (RS-232C connection)	F. Non-Protocol Communication (RS/RS2 Instruction) 9.1 Example of Printing Using RS2 Instruction (Using RS-232C Connection)

- Download file name: gd_ld-fx3_modbus_ex_v100a_e.zip

Manual with program example: FX3G/FX3U/FX3GC/FX3UC SERIES USER'S MANUAL - MODBUS Serial Communication Edition

Project name	Contents	Section with program example
01_LD-FX3U_MODBUS_Ex_V100A	Up to eight PLC device ranges are mapped to the MODBUS Device Address range in a user defined order.	9.4 User defined MODBUS Device Address Assignment
02_LD-FX3U_MODBUS_Ex_V100A	Example of program for coil read, hold register read, coil read, register write, and error process routine (master setting program)	10.2 Creating Programs for the Master Station
03_LD-FX3U_MODBUS_Ex_V100A	Executes in the following order: coil read, hold register read, coil read, register write, and error process routine (master setting program)	11.1 Setting Program for Master Station
04_LD-FX3U_MODBUS_Ex_V100A	Executes the communication parameter setting at the slave side.	11.2 Setting Program for Slave Station

- Download file name: gd_ld-fx3_16cclm_ex_v100a_e.zip

Manual with program example: FX3U-16CCL-M USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the remote I/O station	12.1.3 Setting of parameters
02_LD-FX3U_16CCLM_Ex_V100A	Example of communication between the master station and the remote I/O station	12.1.4 Creating a program for communication
03_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the remote device station	13.1.4 Setting of parameters
04_LD-FX3U_16CCLM_Ex_V100A	Example of communication between the master station and the remote device station (When Remote Net Ver. 1 Mode is used)	13.1.5 Creating a program for communication
05_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the remote device station	13.2.4 Setting of parameters
06_LD-FX3U_16CCLM_Ex_V100A	Example of communication between the master station and the remote device station (When Remote Net Ver. 2 Mode is used)	13.2.5 Creating a program for communication
07_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the remote device station	13.3.4 Setting of parameters
08_LD-FX3U_16CCLM_Ex_V100A	Example of communication between the master station and the remote device station (When Remote Net Additional Mode is used)	13.3.5 Creating a program for communication
09_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the intelligent device station	14.1.4 Setting of parameters
10_LD-FX3U_16CCLM_Ex_V100A	Example of communication between the master station and the intelligent device station (When Remote Net Ver. 1 Mode is used)	14.1.5 Creating a program for communication
11_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the intelligent device station	14.2.4 Setting of parameters
12_LD-FX3U_16CCLM_Ex_V100A	Example of communication between the master station and the intelligent device station (When Remote Net Ver. 2 Mode is used)	14.2.5 Creating a program for communication

- Download file name: gd_ld-fx3_16cclm_ex_v100a_e.zip

Manual with program example: FX3U-16CCL-M USER'S MANUAL

Project name	Contents	Section with program example
13_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the intelligent device station	14.3.4 Setting of parameters
14_LD-FX3U_16CCLM_Ex_V100A	Example of communication between the master station and the intelligent device station (When Remote Net Additional Mode is used)	14.3.5 Creating a program for communication
15_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the remote I/O station, remote device station, and intelligent device station	15.1.6 Setting of parameters
16_LD-FX3U_16CCLM_Ex_V100A	Example of communication in compound system (When Remote Net Ver. 1 Mode is used)	15.1.7 Creating a program for communication
17_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the remote I/O station, remote device station, and intelligent device station	15.2.6 Setting of parameters
18_LD-FX3U_16CCLM_Ex_V100A	Example of communication in compound system (When Remote Net Ver. 2 Mode is used)	15.2.7 Creating a program for communication
19_LD-FX3U_16CCLM_Ex_V100A	Program example of parameter setup to perform a data link with the remote I/O station, remote device station, and intelligent device station	15.3.6 Setting of parameters
20_LD-FX3U_16CCLM_Ex_V100A	Example of communication in compound system (When Remote Net Additional Mode is used)	15.3.7 Creating a program for communication

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Manual with program example: FX3U-64CCL USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_64CCL_Ex_V100A	Communication with remote input and remote output (Sample program on station No. 1 side)	8.3 FX3G/FX3U/FX3UC PLC program example 1) Sample program for station number 1
02_LD-FX3U_64CCL_Ex_V100A	Communication with remote input and remote output (Sample program on station No. 5 side)	8.3FX3G/FX3U/FX3UC PLC program example 2) Sample program for station number 5

- Download file name: gd_ld-fx3u_enetl_ex_v100a_e.zip

Manual with program example: FX3U-ENET-L USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_ENETL_Ex_V100A	Program example to open and close a connection with an external device from the Ethernet module	5.6.1 Active open processing/close processing - Program example for the unit No. 1
02_LD-FX3U_ENETL_Ex_V100A	Program example to open and close a connection with an external device from the Ethernet module (Program example when [Open settings] in parameter setting for Ethernet module by FX3U-ENET-L setting tool is not used)	5.6.1 Active open processing/close processing - Program example for the unit No. 1 A program example when "Open settings" is not provided in the parameter settings for the Ethernet module using FX Configurator-EN-L.
03_LD-FX3U_ENETL_Ex_V100A ^{*1}	Program example to open and close a connection with the Ethernet module from an external device	5.6.2 Passive open processing/close processing
04_LD-FX3U_ENETL_Ex_V100A	Program example of open processing/close processing in UDP/IP	5.6.3 UDP/IP open processing/close processing
05_LD-FX3U_ENETL_Ex_V100A ^{*2}	Fixed buffer communication program example of sending control method (with the procedure exist control method)	6.5.2 Fixed buffer communication program example (with the procedure exist control method) (Send program)
06_LD-FX3U_ENETL_Ex_V100A ^{*3}	Fixed buffer communication program example of receiving control method (with the procedure exist control method)	6.5.2 Fixed buffer communication program example (with the procedure exist control method) (Receive program)
07_LD-FX3U_ENETL_Ex_V100A	How to send e-mail using sequence program	10.7 Sending E-mail (Attached Files) by the PLC

*1 The FX Configurator-EN-L data listed in the manual is "03_LD-FX3U_ENETL_Ex_V100A.fel".

*2 The FX Configurator-EN-L data listed in the manual is "05_LD-FX3U_ENETL_Ex_V100A.fel".

*3 The FX Configurator-EN-L data listed in the manual is "06_LD-FX3U_ENETL_Ex_V100A.fel".

- Download file name: gd_ld-fx3_sensorsoln_ex_v100a_e.zip

Manual with program example: FX3U-128ASL-M USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_SensorSoln_Ex_V100A	Example of sample program for clearing error with the error flag clear command	8.2 Error Flag Clear Command Output Program Example
02_LD-FX3U_SensorSoln_Ex_V100A	Example of sample program for executing address automatic recognition with the automatic address recognition command	8.3 Automatic Address Detection Command Output Program Example

● Data collection

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Manual with program example: FX3U-CF-ADP USER'S MANUAL

Project name	Contents	Section with program example
01_LD-FX3U_CFADP_Ex_100A	Additional writing to CF-ADP internal buffer	9.2 Program Example 1
02_LD-FX3U_CFADP_Ex_100A	Additional writing to file (FILE****) in CompactFlash™ card	9.3 Program Example 2
03_LD-FX3U_CFADP_Ex_100A	Reading error codes and error code information (flag)	9.4 Program Example 3

Manual Revision History

Manual No.	Date of Revision	Details of Revision
JY997D71701A	November 2016	Newly Prepared

Registration

Ethernet is a trademark of Xerox Corporation.

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