

Changes for the Better

FX3U-ENET-ADP

PROGRAMMABLE LOGIC CONTROLLERS

FX3U-ENET-ADP

Easy to use Ethernet for everybody





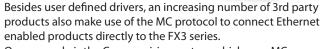


FX3 series Ethernet Adapter FX3U-ENET-A

The adoption of Ethernet in factory automation systems is continuing quickly due to the need for open communication to increase manufacturing efficiency. By using technology originating from the IT world, new functionalities and options are available to increase flexibility and easy of use. The FX30-ENET-ADP provides up to 4 ports with different functions to integrate and to access FX3 series PLC's in your Ethernet network.

penness

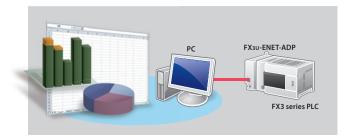
MC (Melsec Communication) protocol is the freely available protocol for direct access to data in the PLC system without the need for additional and fault prone middle ware software.

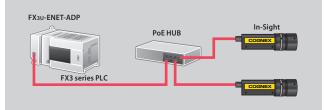


FX3U-ENET-ADP

O POWER SD/RD ERR. OPEN

One example is the Cognex vision system which uses MC protocol to exchange information with the PLC.





Easy access

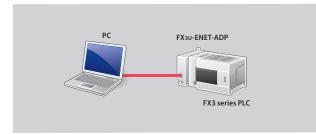
Connecting to the FX3U-ENET-ADP does not require any special Ethernet knowledge. Tight integration into GX Works2 software supports customers with a graphical selection of connection options.

CPU direct connection function (patent pending)

This feature provides Ethernet connectivity with the ease of USB. With this, no presetting is required. Once connected to a main unit, the FX3U-ENET-ADP can be accessed directly by using a single Ethernet cable, without knowing the IP address.



If a HUB or SWITCH is used, the connection can be specified by the device name or by the IP address. If both are unknown, a convenient PLC search function generates a list of accessible FX3U-ENET-ADP units in the network.



HUB FX3U-ENET-ADP FX3U-ENET-ADF FX3U-ENET-ADP

Advanced diagnosis

The status information of the FX₃U-ENET-ADP can be displayed in the dedicated Ethernet diagnosis dialog in GX Works2 software.

						Change IP Addres		
Perameter Status Error F		Connection 3 3ab	us of Each Protoc	col Connection St	atus Time Se	etting Status		
Connection No. /Punction	Host Station Port No.	Destination IP Address	Destination Port No.	Latest Error Code	Protocol	Open System	TCP Status	Forced Deactivation Status
1	5001	0.0.0.0			TOP	MC Protocol	Disconnected	Allowed
2	5002	0.0.0.0			TCP	MC Protocol	Disconnected	Allowed
3	80	0.0.0.0			TCP	Data Monitoring	Disconnected	Allowed
4		192.168.0.18	5019		TCP	MELSOFT Connection	Connecting	Allowed
a SOFT Direct Conn	ection	0.0.0.0						Allowed
 * Display format fo	r Port No. is DEC.	Clar	Latest Error Cod	le Disgble Der	activation of Se	elected Row Eorce D	esctivation of	Selected Row

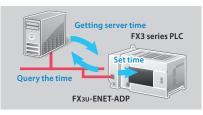
Detailed information about the parameter settings, error history, connection status, time setting status and more can be checked conveniently.

Implemented IT Functions

Simple Time Synchronization

Efficiency often starts with synchronization of processes. Synchronizing the real time clock of networked PLC's via SNTP is a first step towards increased manufacturing efficiency.

This function is also helpful when machines have to be installed overseas or if time stamped data has to be analyzed.



http://192.168.0.100/

NAC

Web based Data Monitoring

Accessing PLC information from any networked device with a standard web browser allows even inexperienced personnel to check processes and PLC statuses. The optional PLC keyword protections and read-only functionality prohibit undesired operation of the PLC. Being free of large amounts of data and animations, this function is suitable even for communication with older devices or where communication bandwidth is limited.

PLC device comments are displayed next to the device allowing a direct interpretation of the value.

Device/Buffer N	lemo	ıy J	Bat	ch]	Mo	nite	01										
Device																State	us : Monitoring
 Device Name 			D 🔽 0													Monitor Start	
OBuffer Memory	7	1	Module Start 0				*		Ad	dress			DEC 🔽			Monitor Stop	
																	Interval(5 - 120)
Monitor Forma	at	Ι	Display					Value			Bit	t Order	Comm	ent	5 (sec)		
OBit			 16bit Integer 						 Dec 			0-F		○Not Display			
 Bit and Wor 	rd			32bit						0	Hex			F-0	💿 Dis	play	
OBit(8/10 Points) OReal Number					14.45												
Bit(8/10 Po:	ints)		OI	keal	Nut	mpe	21.04										
O Bit(8/10 Po:	ints)			keal ASC		npe	a() 1	:011)									
O Brt(8/10 Po:	ints)					npe	a(32	:011)									
O Bitt(8/10 Poil)	ŕ		0		II	_		xt [)e v	ice	>	N	ext	Page >>	ו		
	ŕ	Pro	0	ASC	II ice)		ŕ	De v		>	_	_	Page >> Valu) e		Comment
<prev page<="" pre=""></prev>		Pro	0 /	ASC Dev	II ice A) 9	Ne	xt [1	_		-	mixing	
C Prev Page	F E	Pro D	O #	ASC Dev B	II ice A 0	9	Ne	xt [/ 6		4 0	3 2	1	0		200	mixing temp ta	time
C Prev Page Device D0	F E	Pro	C 0	ASC Dev B 0	II ice A 0) 9 0	Ne 8 7 0 1	xt [7 6 1 1) 0	5 0	4 0 0	32 10	1 0 0	0		- 200 9	~	time nk 1
C Prev Page Device D0 D1	F E 0 0	Pro	0 / ev 0 0	ASC Dev B 0	II ice A 0 0	9 0 0	Ne 8 7 0 1	xt [6 1 0 0	5 0 0	4 0 0	32 10 10	1 0 0	0 0 1		200 9 16	temp ta	time nk 1 nk 2
C Prev Page Device D0 D1 D2	F E 0 0 0 0	Pro	C 0 0 0 0	ASC Dev B 0 0	II A 0 0 0	9 0 0 0	Ne 8 7 0 1 0 0	xt [6] 0] 0] 0	5 0 0	4 0 0	3 2 1 0 1 0 0 0	1 0 0	0 0 1		200 9 16 11	temp ta temp ta	time nk 1 nk 2 in tank

Dedicated screens for PLC, FX3U-ENET-ADP and communication status for easy to understand information including error details.



Access log information is available. It is helpful for troubleshooting and tracing access made to the unit.

				S	tatus : Monitoring Nonitor Start Monitor Stop	
N0.	Year/Month/Day	Time	Connection No.	Protocol	Open System	Destination IP Address
Latest	2012-04-03	10:28:04	3	TCP	Data Monitoring	192.168.0.100
2	2012-04-03	09:11:18	4	TCP	MELSOFT Connection	192.168.0.18
3	2012-04-03	09:10:58	4	TCP	MELSOFT Connection	192.168.0.100
4	2012-04-03	08:48:58	4	TCP	MELSOFT Connection	192.168.0.18
5	2012-04-02	20:12:27	4	TCP	MELSOFT Connection	192.168.0.18
6	2012-04-02	20.10.27	4	TCP	MELSOFT Connection	192,168,0,18

Integrates easily with user applications

Effortless setup

The characteristics of the FX₃U-ENET-ADP are set in the PLC parameter setting dialog. Straightforward design and simple selection options make the FX₃U-ENET-ADP easy to pick up and start using immediately.

22222222

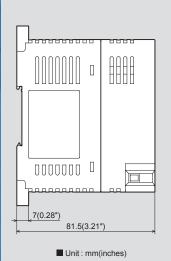
General Ethernet address setting dialog	Connection setting dialog	SNTP setting dialog		
Memory Capacity Device (20: Section(2)) R.C. System(2)) R.C. System(2)) Section (20: Section (20: Protocols)) Device (20: Section (20: Protocols)) Outriel Oil	Protocol Open System Intel Subin Description 1 10°D wic Protocol 5001 Rot Stelling 2 1°D wic Protocol 600 Rot Stelling 3 1°D wice Protocol 600 Rot Stelling 3 1°D vice Strokering 60 Rot Stelling 3 1°D vice Strokering 60 Rot Stelling	The Stating SHIP Aurons Sering Add Used SHIP Serier IP Address Type Zone Type Zone F Ecounce line setting at lum CH On-error Action		
Ceremencation Data Code Ceremencation Data Code Ceremencation Data Code Ceremencation Data Code Data Ceremence Data Code The Windows Per Windo		Concern Internel Concernel Concernel Concernel Concernel Concernel Concernel Concernel		

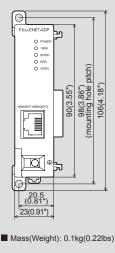
The FX30-ENET-ADP is supported by GX Works2 version 1.73B or later. The data monitoring setting is selectable from GX Works2 1.86Q.

Specifications

ltem		Details				
Power supply		30mA / 5V DC supplied internally from the main unit				
Communication	Data transmission speed	100Mbps/10Mbps				
	Communication method	Full-duplex/Half-duplex				
	Maximum segment length	100m (328'1")				
	Connector	RJ45				
Performance	Functions	MELSOFT connections				
		MELSOFT direct connection				
		(Simple Connection)				
		Find CPU function				
		Diagnostics function from MELSOFT				
		Data monitoring				
		Time setting function (SNTP)				
		Communication using MC Protocol				
	Number of connections	Max. 4 connections				
Configuration		Left end of adapters				
Corresponding PLC		FX3U(C) Ver. 3.10 or later,				
		FX3G(C) Ver. 2.00 or later				
External dimensions	and weight	$90(H) \times 23(W) \times 81.5(D)[mm]$, 0.1kg				

Dimensions





MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN http://Global.MitsubishiElectric.com