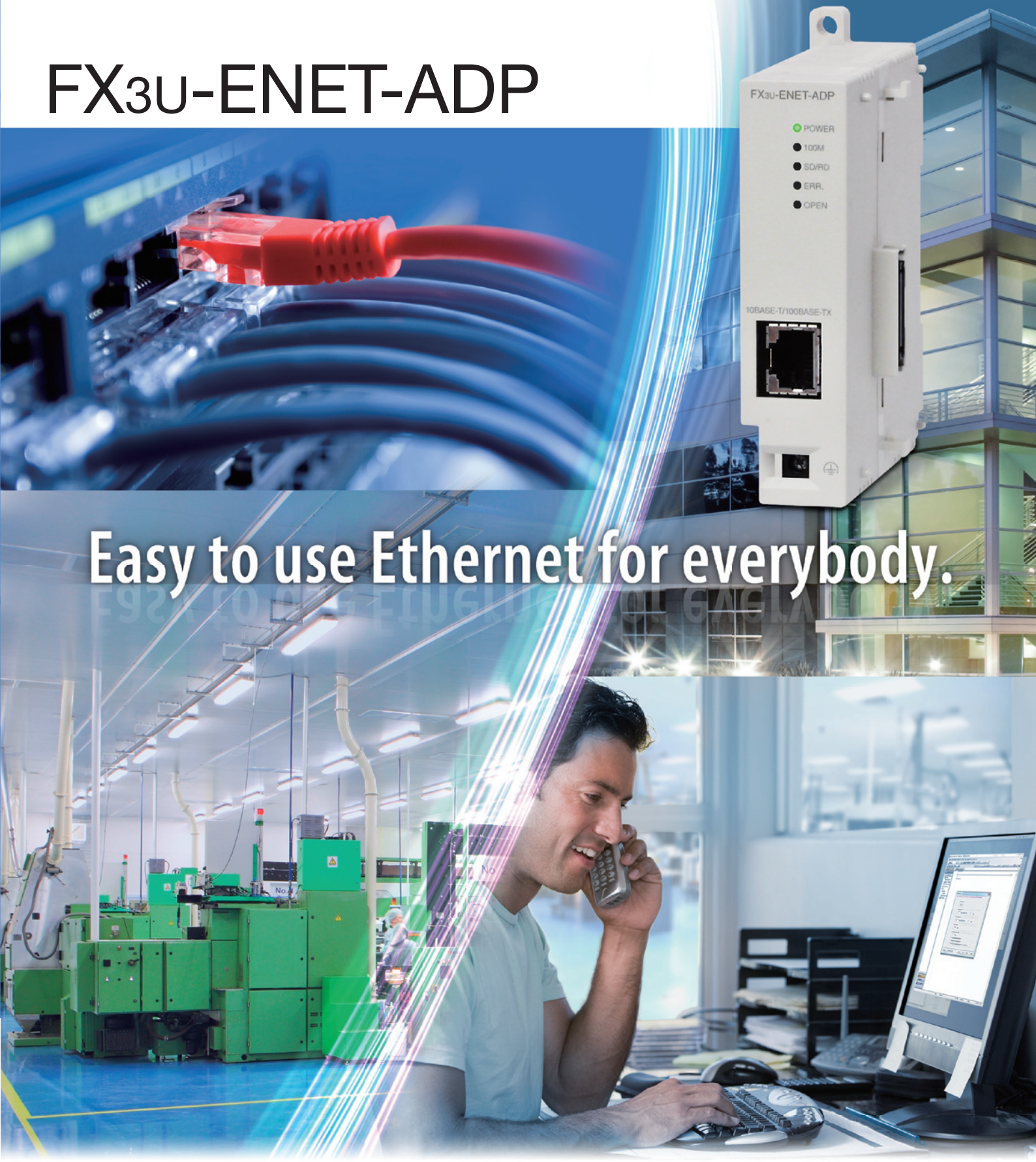
MITSUBISHI ELECTRIC

Changes for the Better

PROGRAMMABLE LOGIC CONTROLLERS

FX3U-ENET-ADP



Easy to use Ethernet for everybody.

Empowering Industries

for a greener tomorrow eco Changes

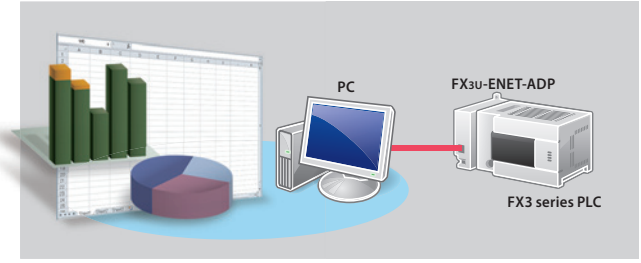
FX3 series Ethernet Adapter

FX3U-ENET-ADP

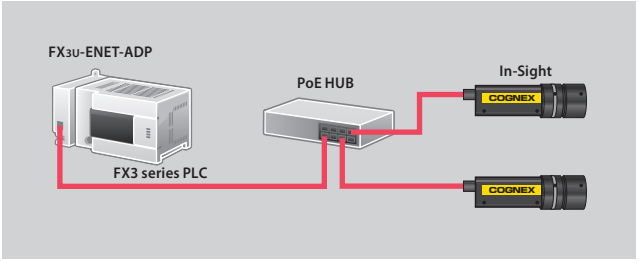
The adoption of Ethernet in factory automation systems is continuing quickly due to the need for open communication to increase manufacturing efficiency.
By using technology originating from the IT world, new functionalities and options are available to increase flexibility and easy of use.
The FX3U-ENET-ADP provides up to 4 ports with different functions to integrate and to access FX3 series PLC's in your Ethernet network.

Openness

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.



Besides user defined drivers, an increasing number of 3rd party products also make use of the MC protocol to connect Ethernet enabled products directly to the FX3 series.
One example is the Cognex vision system which uses MC protocol to exchange information with the PLC.

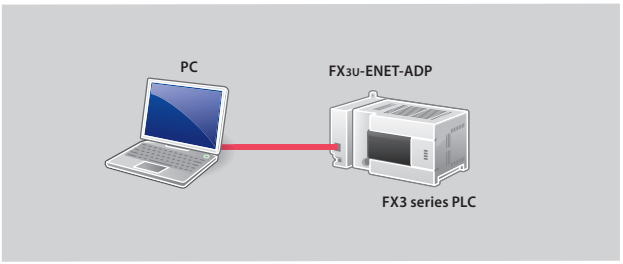


Easy access

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.

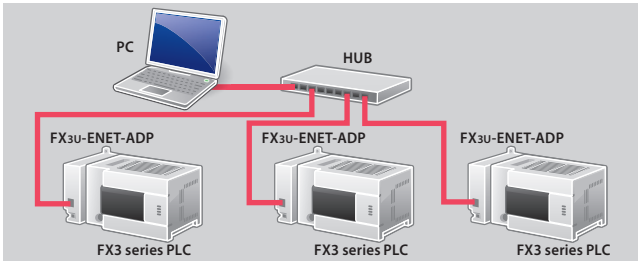
CPU direct connection function (patent pending)

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.



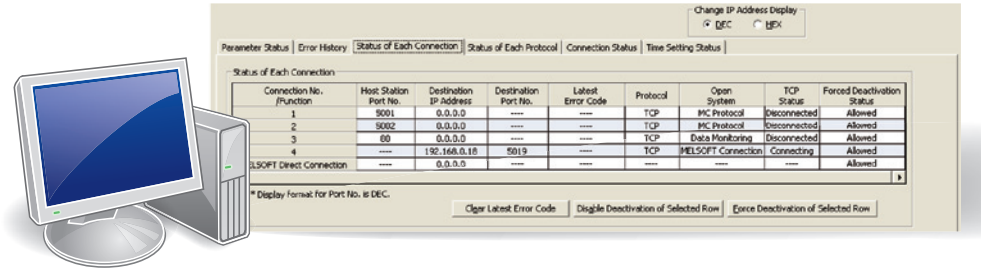
Connection via HUB

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.



Advanced diagnosis

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

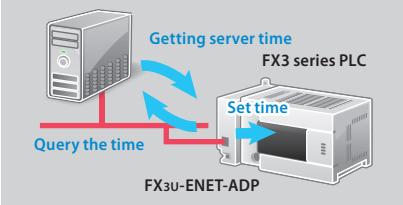


Detailed information about the parameter settings, error history, connection status, time setting status and more can be checked conveniently.

Implemented IT Functions

Simple Time Synchronization

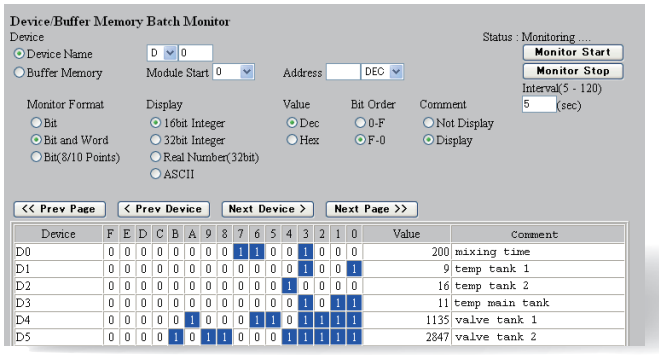
Efficiency often starts with synchronization of processes. Synchronizing the real time clock of networked PLC's via SNTP is a first step towards increased manufacturing efficiency.
This function is also helpful when machines have to be installed overseas or if time stamped data has to be analyzed.



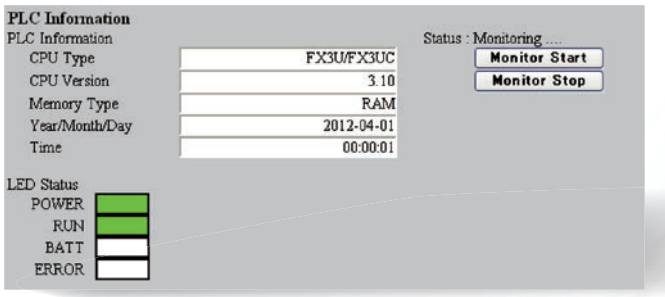
Web based Data Monitoring

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.

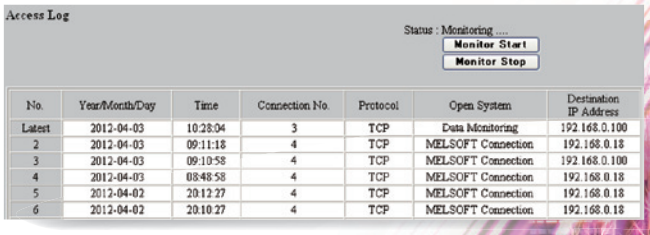
PLC device comments are displayed next to the device allowing a direct interpretation of the value.



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.

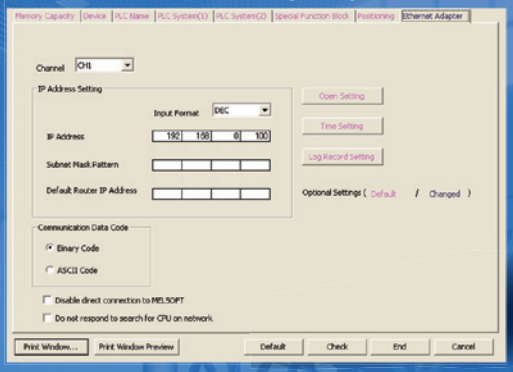


Integrates easily with user applications

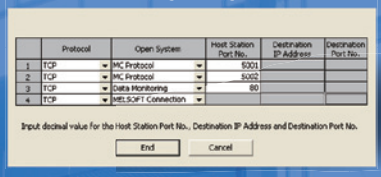
Effortless setup

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.

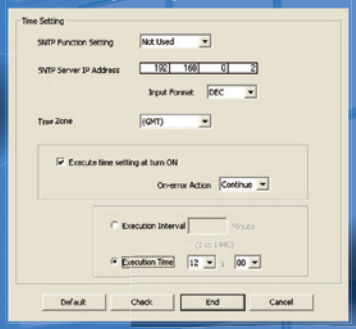
General Ethernet address setting dialog



Connection setting dialog



SNTP setting dialog

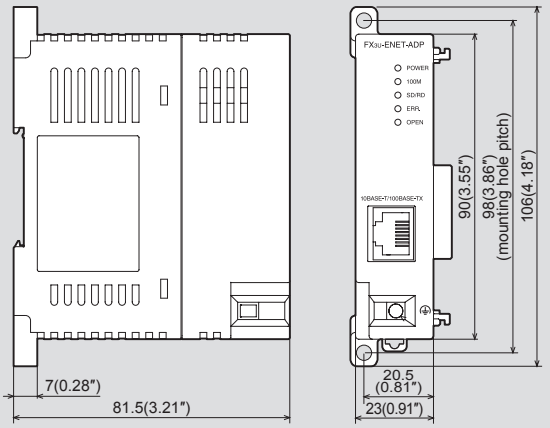


The FX3U-ENET-ADP is supported by GX Works2 version 1.73B or later. The data monitoring setting is selectable from GX Works2 1.86Q.

Specifications

Item		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) × 23(W) × 81.5(D)[mm] , 0.1kg

Dimensions



■ Unit : mm(inches)

■ Mass(Weight): 0.1kg(0.22lbs)

MITSUBISHI ELECTRIC CORPORATION

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

http://Global.MitsubishiElectric.com

HIME-L51-A1205(MEE) Printed in Japan

New publication, effective May 2012