FX CUSTOMER NEWS
— Volume 9 —

NEWS 1
New CF card adapter for the FX3U and FX3UC PLCs

NEWS 2
New mixed analog input and output adapter for the FX3 series

Empowering Industries

NEWS 1 — New CF card adapter for the FX3U and FX3UC PLCs

EASY DATA COLLECTION

FX3U-CF-ADP *Release!*

The FX3U-CF-ADP enables general purpose data logging in FX3U/FX3UC PLCs. The difference from other available logging units is that the PLC main unit controls the data logging based on user requirements, e.g. periodical or event based. For tracing a timestamp is automatically added to all stored data, which eases pressure on alarm logging and other time critical logging functions.

1 Up to 2GB of data storage

Ample space for long term data logging as well as for storage and back-up of other various user data like recipe data or positioning information.

2 6 Applied Instructions for straight forward programming

Each instruction performs a certain type data manipulation, such as data write, data read or create file.

3 Support for multiple files

Up to 63 files with user defined names can be used for data storage based on date or time. Additionally one file with a fixed name for FIFO data storage.

4 Automatic time stamping

The current value of the real time clock, e.g. "2009/ 9/10 23:59:07", is added to every entry when the data write instruction is executed.

5 Real time precision for the most accurate data logging

By using interrupt functionality, input signals with a width of only 5μs can be recognized, the current value of a high speed counter copied via the "High Speed Counter Move" instruction and the data logging process can be started.
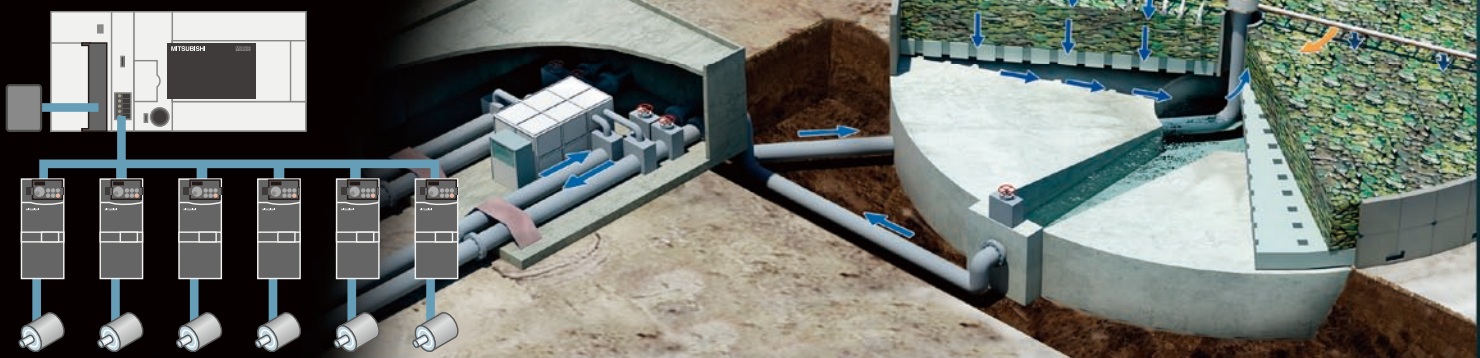
Specifications	FX3U-CF-ADP
Power supply voltage	24V DC +20% -15% Ripple (p-p) within 5%
Current consumption	130mA
Ambient temperature*1	0 to 55 °C (32 to 131 °F) when operating, -25 to 75 °C (-13 to 167 °F) when stored
Data transfer method	Depends on the applied instruction sent from the main unit.
Clock data	Operates based on the clock data in the main unit.
DOS file system	FAT16
The maximum data capacity	2GB
The maximum file size	512MB (Per 1 file)
Data format	CSV format
The number of the maximum files	63 file (When the FIFO function is not used)
FIFO functional file	1 pattern. The file name is automatically assigned.
Supported PLC	FX3U and FX3UC from F/W 2.61 or higher

*1: The upper limit of the ambient temperature shall not exceed "20 C" below the upper limit of the CompactFlashTM card operating temperature.

Typical application for trickle filters systems or pump stations.

The FX3U communicates with multiple inverters via FreqRol protocol and periodically stores various process data for optimization purpose to the CF card.

FX3U-3A-ADP

Complete Analog Control
for FX3 series

The FX3U-3A-ADP is the solution targeting small analog applications requiring basic yet fast analog input and output functions. It further extends the line up of serial communication, positioning control, temperature measurement and analog processing adapters for the left side system bus of the renowned FX3 series PLCs.

1 Combination of analog input and output

Offering two analog inputs and one analog output with max 12bit resolution allows complete control of smaller processes.

2 Support of standard analog signals

Having 0 to 10V and 4 to 20mA free selectable inputs and outputs enables easy connection to all standard analog units.

3 Direct addressing

All data is automatically updated in the special relay and register area. Having no need to learn special commands eases commissioning and maintenance.
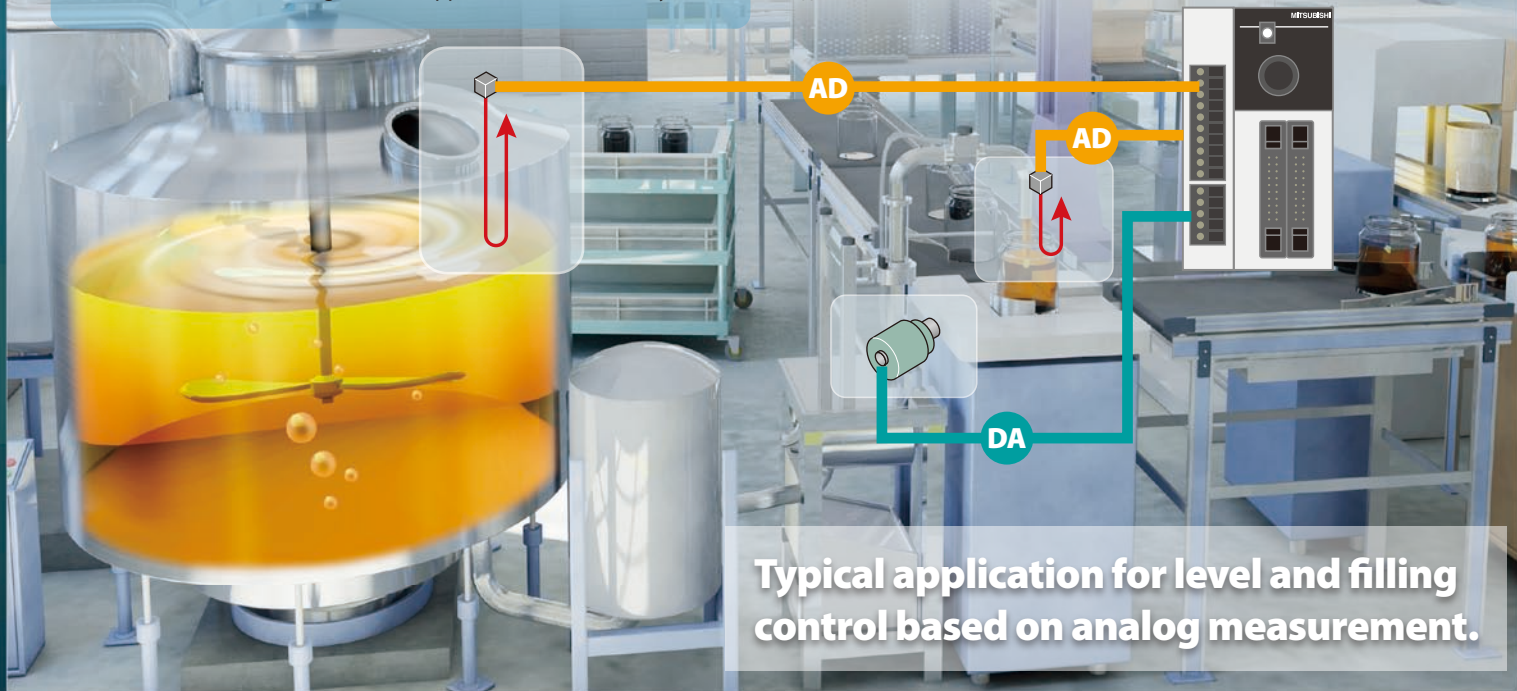
4 Compact size

The extreme compact size of only 17.6Wx90Hx89.5D (mm) allows expansion to the PLC with a minimum of additional space.

5 Speed

Requiring a conversion time of 200µsec with the FX3U(C) or 250µsec with the FX3G lets analog control happen in the blink of an eye.

Specifications		FX3U-3A-ADP
Power supply		5V DC / 20 mA (from main unit) 24V DC / 90 mA
Analog channels	inputs	2
	outputs	1
Analog Input range (resolution)	voltage	0 to 10V DC (2.5 mV / 12 bits)
	current	4 to 20 mA (5 µA / 12 bits)
Analog Output range (resolution)	voltage	0 to 10V DC (2.5 mV / 12 bits)
	current	4 to 20 mA (4 µA / 12 bits)
Overall accuracy for fullscale		±0.5 % - 1.0%(Dependent on the ambient temperature)
Related I/O points		0
Weight	kg	0.1
Dimensions (W x H x D)	mm	17.6 x 90 x 89.5

*Supported from FX3U/3UC F/W 2.61 and FX3G F/W 1.20

Typical application for level and filling control based on analog measurement.

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