

Power Monitoring Equipment

Power monitoring system software

F-MPC-Net

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■ Description

You can display various data that have been measured and collected by power monitoring equipments on your PC (Windows NT, 2000, XP) that the application software F-MPC-Net was installed. With your PC, you can see a demand monitor display, trend display, alarm display, and also print documents.

■ Features

- Measurement display
Analog value like current can be measured and displayed (measured value display). Cumulative value like cumulative electric energy can be measured and displayed (measured value display). The measured data can be calculated (arithmetic operation)
- Demand monitoring
2-channel demand monitor can be made for 30 minutes. (excessive power forecast, alarm output to excessive power available)
- Trend display
Trend sampling can be made: up to 40 points of analog value's trends like current, up to 80 points of electric energy trends.

■ Example screen

Measurement value display screen



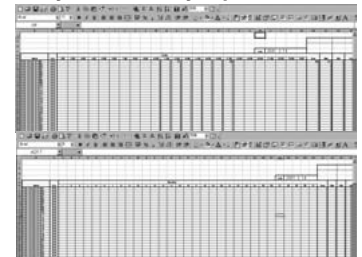
Displays a horizontal bar graph of the data on measurement signals. The above is an identification zone graph of upper and lower limits monitored.

Demand monitor screen



A screen for the 30-minute demand monitoring of accumulative power. A screen for one signal is provided.

Daily and monthly report in Excel



■ Software specifications

- Data display (Ver. 1.2 or later)

Screen name	Max. display per screen	Max. No. of management points
Alarm status indication	16 points	512 points
Status indication	16 points	2000 points *
Measured value indication	8 points	2000 points *
Demand monitor	1 system	512 points
Trend indication	Analog	8 points
	Electric energy	10 points
Document printing	16 points	512 points
Data setting screen	Basic setting	16 points
	Monitor setting	16 points
	Composing setting	16 points
	Spreadsheet	16 points

Note: * Use these two items at the total points of less than 3000 points.



Alarm list screen

- Trend data can be saved in CSV format which can be read by Excel.
- Alarm display up to 512 points
Outputs an alarm to the devices that you have added alarm function to. The alarm level is classified into three; light, medium, and heavy. The alarm data can be printed and saved.
- Print document
Daily report, monthly report, and yearly report can be made, printed, and saved.

- No. of operable data

Total	Description		
3000-amount	Input data	MPC	Numerical value
			Bit
		Analog (max. 32 points) *	
		Bit (max. 32 points) *	
Internal composed data (max. 999 values)			

Note: * DIP is necessary.

■ System requirement

PC	DOS/V (PC-AT compatible)
CPU	Pentium 233MHz or higher
HDD	1GB or more
Memory	128MB or more

Monitor	17-inch or more CRT (1024 X 768 pixels)
Auxiliary storage device	MO drive
Printer	

OS	Windows NT4.0, Windows 2000, Windows XP
Application software	Power monitoring system software F-MPC-Net Microsoft Excel 97 or later

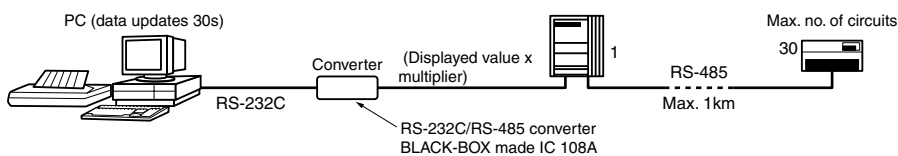
Note: Windows NT4.0, Windows 2000, Windows XP are either registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries. Microsoft Excel 97/98/2000 are registered trademarks of

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■ System configuration

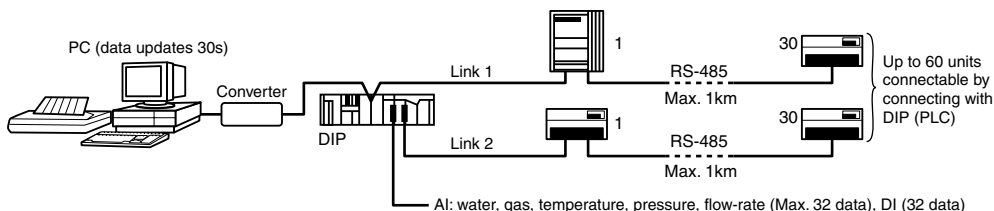
● Small system (RS-485)

F-MPC-Net (max. 3000 data)
Demand monitoring
Status display
Measured data display
Alarm display
Document printing and save



● Middle-sized system (RS-485)

Demand monitoring
Status display
Measured data display
Alarm display
Document printing and save



■ Communications specifications

● Standard transmission data with PC (default)

Monitoring unit	UM01	UM02	UM03
Present data amount	13	11	8
Current (R,S,T)	○×3	○×3	○×2
Z-phase current	○	—	△
Active power	○	○	○
Reactive power	—	○	○
Electric energy	○	○	○
Max. demand power	○	○	—
Line voltage UV,VW,WU (1VT)	○×3 *1	○×3 *1	○×2
Line voltage UV,VW,WU (2VT)	○×3 *1	—	—
Z-phase voltage	—	—	—
Power-factor	— *2	○	○

Monitoring unit	UM01	UM02	UM03
Fault data amount	—	—	—
Fault current (R,S,T)	—	—	—
Z-phase fault current	—	—	—
Fault current UV (59)	—	—	—
Fault voltage UV, VW, WU (27)	—	—	—
Zero-phase fault voltage	—	—	—
Alarm signal amount	3	1	0
Current alarm	○	—	△
Leakage current alarm	○	—	△
Device faulty	○ *1	○ *1	—
No. of circuits	10	8	1
Total of data	97	68	8

Note: *1: Data transmission: one data per UM unit

*2: Power-factor can be read by setting change depending on the version of UM01.

○ Available, — Not available, △ Available by setting

● Maximum number of data by each unit

	Number of data
UM01	97 per 1 unit (10 circuits) × 30 units 2910
UM02	68 per 1 unit (8 circuits) × 30 units 2040
UM03	8 per 1 unit × 30 units 240