# **Specifications**

	Item			Details			
	Register collection source			Register a collection source and its measuring points.			
		Collection source		EcoWebServerⅢ or Edgecross			
		The number of registration		A maximum of 20 units *1			
		The	number of registration	A maximum of 5680 points			
		for n	Teasuring point				
			EcowebServerIII EcoWebServerIII	A maximum of 255 points per collection source			
			with demand	Demand time (10 minutes): Up to 284 points per unit			
			monitoring function	Demand time (60 minutes): Up to 280 points per unit			
			Edgeoropo	A maximum of 256 points per unit			
			Lugecioss	Data type: BOOL, INT, UINT, DINT, UDINT, REAL, LREAL			
	Register manual input measuring			Register measuring points such as offline meter to			
	The number of registration			A maximum of 256 points			
	Begister product type time period			Register measuring points to measure values during a			
2	measuring point			specified time period.			
lea	The number of registration			A maximum of 256 points			
Sun		Mea	suring value point/	Select from measuring point or manual input measuring			
рŋ		Time period measuring point		point.			
poi:	-	Time	e period type	0 to 65535			
nts	Reg	ister t	calculation measuring	Register measuring points to perform four arithmetic			
etti		The	number of registration	A maximum of 256 points			
sgu			number er regionation	Select from measuring point, manual input measuring			
				point, or product type time period measuring point.			
		Calc	ulable measuring point	A maximum of 200 points can be registered per			
				calculation formula.			
				formula			
	Spe	cific o	consumption measuring	Register measuring points to calculate specific			
	poin	t		consumption.			
		The	number of registration	A maximum of 256 points			
		Energy measuring point/		Select from measuring point, manual input measuring			
		measuring point		point, product type time period measuring point, or calculation measuring point			
				Folder tree: A maximum of 4 hierarchy levels			
				The number of groups: A maximum of 256 groups			
	Mea	surin	g point group	The number of registration: A maximum of 256			
				*A maximum of 7000 measuring points for group total			
0				Select from time series chart, box plot, pie chart.			
irap	Ana	lysis	method (Graph type)	scatter plot, histogram, or pareto chart.			
hf				Select from hourly, daily, monthly, or yearly.			
Ino	Disp	olay ir	nterval	*When analysis method is box plot, the display interval is			
tio	The	0.000	or of onving	A maximum of 200 papala			
F	me	num	Der of Saving	Create a dashboard with panels of graph and measuring			
	Das	hboa	rd creation	point data arranged.			
	Sheet setting			Settable up to 10 sheets per dashboard			
				·Graph panel (created with graph function):			
				A maximum of 10 panels per sheet			
			Available panel	A maximum of 15 papels per sheet			
				·Image panel (Image file):			
				A maximum of 5 panels per sheet			
Das	The	num	per of saving	A maximum of 5 files			
hbo	Display mode		node	Display a created dashboard on the software.			
Daro		Auto-update		Set up whether to automatically update a graph and			
fu			Auto-undate timing	After automatic collection			
ncti	Disp	lay	Tab display	Set up whether to display the tab for sheet switching			
n N	setti	ngs	A to a first	Set up whether to automatically switch the sheet at			
			Auto-switch	regular intervals.			
		Auto-switch interval		10/20/30/60/120/180/300 (sec)			
	HTML output			Output a created dashboard to a HTML file.			
	Automatic HTML output function			Set up whether to automatically output to a HTML file			
				undated.			
				After automatic collection			
	Saving destination			Set up the saving destination of HTML file to be output.			

source is Edgecross, the number to be registered depends on the flow number of data logging in Edgecross. The number of data logging flow in Edgecross is up to 8. For more information about the data logging flow, refer to Edgecross Basic Software for

Windows User's Manual

#### Country/Region Sales Office

USA+1-847-478-2100	Czech Republic +420-251-551-470	Korea+82-2-3660-9530
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Germany+49-2102-486-0	Russia+7-812-633-3497	Vietnam+ 84-8-3910-5945
UK+44-1707-28-8780	Turkey+90-216-526-3990	Indonesia +62-21-3192-6461
Ireland+353-1-4198800	UAE+971-4-3724716	India+91-20-2710-2000
Italy+ +39-039-60531	South Africa +27-11-658-8100	Australia+61-2-9684-7777
Spain+34-935-65-3131	China+86-21-2322-3030	
France+33-1-55-68-55-68	Taiwan+886-2-2299-2499	

		litems	Annual report	16 items per page × 20 pages		
R				Select from measuring point, manual input measuring		
pop		Output item		point, product type time period measuring point,		
Ē				measuring point, or specific consumption		
nction				Create Daily report of specified day and save it in Exce		
		Daily report		format.		
	Report creation	Monthly report		Create Monthly report of specified month and save it in Excel format.		
		Annual report		Create Annual report of specified year and save it in Excel format.		
	Automatic report output settings			Set up whether to automatically output a report.		
		Automatic output time		Set up the time when a report is automatically output.		
		Saving destination		-Set up the destination path of Monthly report file. -Set up the destination path of Annual report file.		
	File colle	ction settings		Collect the logging file stored in collection source.		
	Collection	EcoWebServerⅢ		Zoom (1 min.) data file and Demand (daily) data file basis *2		
	target	Edgecross		Historical data file		
Dat	Automatic collection settings			Set up whether to automatically collect data on each file type.		
ŝ		Automatic		EcoWebServerII: Collection time specified by the user		
E C		collectio	on timing	Edgecross: Collection cycle specified by the user		
Ť	Determine	Collectio	on interval	Set up the collection period on Daily/Monthly/Annual basis		
f	Retention	1 period	0 minutoo	Set up the retention period on each file type.		
nct		hasis da	o minutes ata			
9		Daily basis data Monthly basis data		2 to 10 years (Default: 10 years)		
		Annual basis data				
	File deletion timing			Sequentially delete logging files of expired retention		
	The delet		9	period.		
				Input each measuring point data on 15/30/60 minutes		
ata	Data inpu	ıt		The number of measuring points for simultaneous		
3				inputs: A maximum of 256 points		
ŭ				Specified period: A maximum of 31 days		
Ľ.	Export			Output each measuring point data on 15/30/60 minutes		
tio	-			and daily basis for a user-specified period to Excer file.		
2	Import			and daily basis based on imported Excel file.		
				Select from product type time period measuring point,		
ŝ	-			calculation measuring point, or specific consumption		
Report function Data collection function Data input function Calculation function Data output function	Target m	easuring	point	measuring point.		
				one time.		
	Automati	c calculation		Automatically calculate measuring point data.		
Inc				Select from product type time period measuring point,		
ö		Target n	neasuring point	calculation measuring point, or specific consumption		
2		Calculation timing		At automatic collection		
	Data outout			Output collected measuring point data (saved in a file)		
D	Auto output settings for data file			Set up whether to automatically output a data file.		
lta		Output group settings		A maximum of 30 groups		
ů,		Output destination		Set up the destination path.		
Put				Select from measuring point, manual input measuring		
fun		Measuri	ing point	point, product type time period measuring point,		
윩		to be output		calculation measuring point, or specific consumption		
ň		Output timing		After automatic collection		
		Backup	annig	Back up settings and data to a folder		
Mair	ntenance	е		Restore settings and data backed up from a specified		
Tunc	tion	Hestore		folder.		
Vers	sion *3	EcoAdv	iser	1.0.0		
		Historic	al data access I/F	1.0		

Set up the report format

16 items per page × 20 pages A maximum of 320 items 6 items per page × 20 pages

The number of saving

The

Daily report

A maximum of 24 report settings (Using a setting, output items of Daily/Monthly/Annual report are saved.) A maximum of 320 items,

\*2: When collection source is EcoWebServerII with demand monitoring function, you can collect Demand (daily) data file.

\*3: The latest version is described

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#### MITSUBISHI ELECTRIC CORPORATION

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# **Energy Saving Support Software EcoAdviser**

Minand 21/Parel

Edgecross

# Assists data analysis

EcoAdviser assists monitoring and analysis of measurement data by converting data to suitable types of graphs/charts. Complicated data analysis and report is no longer required.

## Display collecting data in Dashboard

Collected energy consumption data and production information are displayed on customizable Dashboard.





# FACTORY AUTOMATION



## Easy system extention

In combination with EcoWebServerIII, users can build a system without complicated programming. EcoAdviser manages up to 20 units of EcoWebServers with user-friendly GUI.



EcoMonitorPlus/EcoMonitorLight etc



# Feature 1 Analyze collected data

Various analysis can be realized by collecting energy information such as electricity consumption and production volume accumulated by PLC.

Only 3 steps to display graphs



# Selectable from 7 types of graphs depending on analysis purpose



# Feature 2 **Customizable Dashboard**

EcoAdviser can be used as a visualization tool at the site.



Try demo software!

Demo software can be downloaded from website. (https://www.mitsubishielectric.com/fa/products/pmng/ems/index.html)

# Feature 3 User-friendly setting and scalability

No programming or complicated engineering work is required. All you need is just simple setting. EcoAdviser collects measured data automatically. It can be also used as an application that runs on Edgecross\*.

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Easy setup The application can be launched and extended only with PC mouse operation.

# System Configulation

### Collecting data from EcoWebServerII



\*1: The software collects measuring data from Zoom (1 min.) data file and Demand (daily) data file basis in EcoWebServer III \*2: To browse a dashboard in HTML file on a PC in the network, it is necessary to enable Web server functionality such as IIS on the PC.

\*3: The software collects measuring data in collection source from historical data file created by Edgecross.

\*4: If a PC, MELIPC, is able to communicate with EcoWebServer II through Ethernet, both Edgecross and EcoWebServer II can be registered as collection source.

#### Collected data can be displayed in graphs/charts on customizable Dashboard. Also, if a web server is set on your PC,

\* Monitor screen update cycle is 1 hour.

#### Easy operation with Edgecross

#### \*Edgecross

Open software platform for

edge computing domain

that enables collaboration

between FA and IT.





