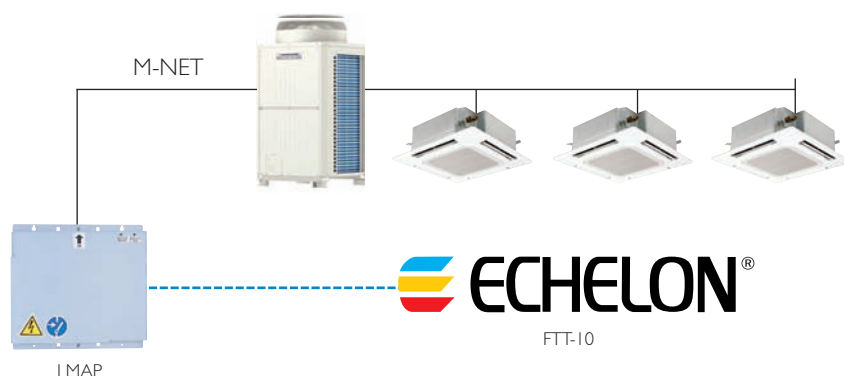# BEMS LonWorks® Interface

LMAP

The Mitsubishi Electric LMAP continues to strengthen the ability of our products to interface with other third party building control systems using the globally recognised and accepted open network protocol Echelon LonWorks®. LonWorks® was introduced into the building services industry a number of years ago with the aim of establishing itself as the defacto communications standard. Many hundreds of products now exist that utilise the LonWorks® protocol from complete systems like BEMS, lighting, power monitoring and security down to simple sensors and relay switches.

To ensure that our products can connect directly and easily with other LonWorks® products, the L-MAP02 was designed utilising Echelon MIPS technology and was the first to provide data in the LonWorks® SNVT (Standard Network Variable Type) format.

LMAP LonWorks® INTERFACE

FUNCTION	LMAP	COMPATIBLE WITH
MAX No. OF INDOOR UNITS	50	Honeywell
CENTRALISED CONTROLLER REQUIRED	No	
POWER SUPPLY	240VAC 0.5A	Johnson Controls
COMPATIBILITY	City Multi Mr Slim via PAC-SF81MA M Series via MAC-399IF	Realtime Control Systems (LTX51/LTX21 via VCI)
BEMS CONNECTION	LonWorks FTT-10	Smart Controls
DIMENSIONS - mm (WxDxH)	340x60x360	

LMAP LonWorks® INTERFACE

FUNCTION	NETWORK VARIABLE	POINT TYPE	NOTES
Control			
	On/Off	Digital Input	Run/Stop
	Mode Operation	Analogue Input	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	Analogue Input	Cooling 19-30°C, Heating 17-28°C, Auto 19-28°C
	Fan Speed Control	Analogue Input	Lo-Mi1-Mi2-Hi
	Permit / Prohibit	Digital Input	On/Off, Mode, Setpoint (only available when using PAC-YT51CRA or PAR-21MAA)
	Filter Sign	Digital Input	Normal/Reset
Monitor			
	On/Off	Digital Output	Run/Stop
	Mode Operation	Analogue Output	Cool / Dry / Heat / Auto / Fan
	Setpoint Adjustment	Analogue Output	Cooling 19-30°C, Heating 17-28°C, Auto 19-28°C
	Fan Speed Control	Analogue Output	Lo-Mi1-Mi2-Hi
	Permit / Prohibit	Digital Output	On/Off, Mode, Setpoint (only available when using PAC-YT51CRA or PAR-21MAA)
	Fault Code	Analogue Output	4 Character code - Indicates all unit alarms
	Filter Sign	Digital Output	-
	Room Temperature	Analogue Output	-

*NOTE 1: Applicable with AG150 / PAC-SC51KUA or GB50