IO Interface

The new IO interface has been developed to allow third party systems, for instance BEMS companies, to easily control and monitor our air conditioning systems using simple volt free contacts and 0 to 10VDC signals. By working very closely with our main retail clients we have added some beneficial energy saving features, whilst still offering an acceptable level of control for retail applications. To avoid wasting energy the IO interface can also be used to interlock third party heating systems to our air conditioning.

IO Interface

Technical Information

IO Interface

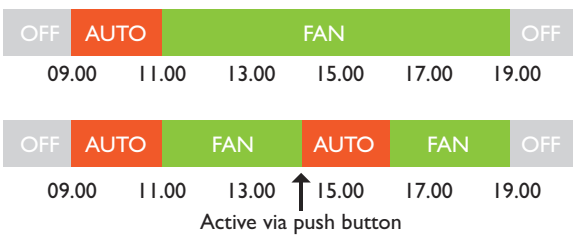
FUNCTION	DESCRIPTION	INPUTS / OUTPUTS	IO INTERFACE
UNIT	Max No. of indoor units	-	1 or 16*1
ON/OFF	Run and Stop operation for a single group	Input	Volt Free Contact
LOCK	Run/Stop, Temperature Setting, Mode Selection and Filter Reset functions can be prohibited	Input	Volt Free Contact
ENERGY SAVE	Energy Save can be activated. 2 options are available	Input	Volt Free Contact
TEMPERATURE SETTING	Sets the groups temperature control	Input	0 to 10VDC
MODE	Switches between Cool/Dry/Auto/Fan/Heat. Operation mode will vary depending on the indoor unit. Auto mode is available with only R2 and WR2 systems	Input	0 to 10VDC
FAN SPEED	4 speed - Lo-Mi1-Mi2-Hi 2 speed - Lo-Hi	Input	0 to 10VDC
RUN STATUS	-	Output	Volt Free Contact
FAULT	-	Output	Volt Free Contact
HEAT / COOL	Activates when unit is in heating or cooling mode	Output	Volt Free Contact
THERMO	Activates when room temperature is 2°C away from setpoint	Output	Volt Free Contact
COMPATIBILITY	Mr Slim and M Series	-	-
DIMENSIONS - mm (WxDxH)	85x32x138	-	-

Energy Saving Features

MODE 1

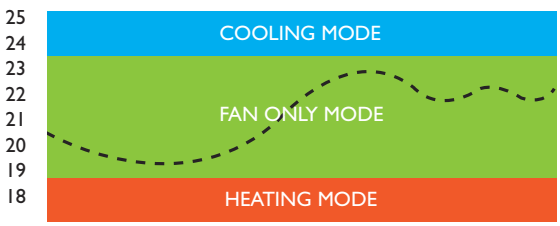
The energy saving mode 1 sets the indoor unit to Auto mode whenever a momentary signal is applied to the 'Energy Save' input or whenever the on/off state is changed from OFF to ON. The unit will operate in AUTO for 0.5, 1 or 2hours and then revert back to fan only.

The timer can be reset using the Energy Save input.



MODE 2

The energy saving mode 2 sets two setpoints for the indoor unit, one for heating and one for cooling. In between the indoor unit will be running in fan only mode.



*1 The IO Interface can control up to 16 indoor units when the fault output is not used. When the fault output is used only one indoor unit can be controlled.