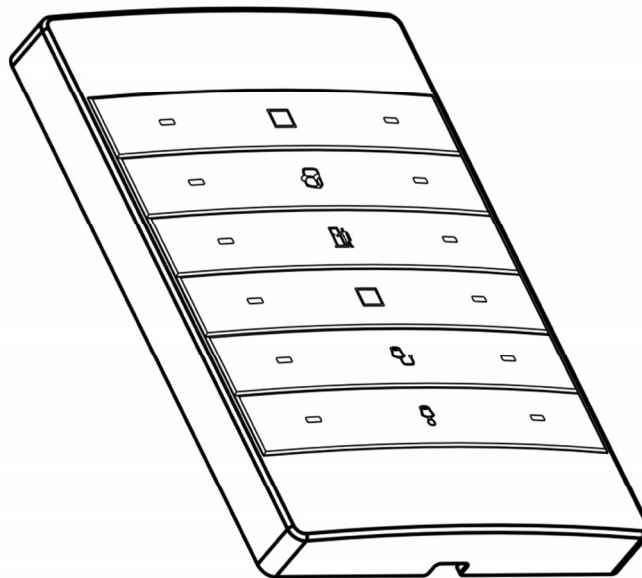# TIS Mars Panel
12/8/4 Buttons
Model: MRS-12G MRS-8G MRS-4G
Data Sheet Rev 1.1

Safety instructions
Electrical equipment may only be installed and fitted by electrically skilled persons.
Failure to observe the instructions may cause damage to the device and other hazards.
These instructions are an integral part of the product, and must remain with the end customer.

Basic information
This device is a product of the TIS system. It is a wall mount Panel with 12/8/4 buttons that can be Programmed to control lights, scenes, curtain, TV, and all other devices on the same TIS network, technical knowledge obtained in TIS training courses is a prerequisite to proper understanding how to install device. Advanced Programming knowledge about software obtained in the advanced training courses.

Intended use
To control home appliance, lights on/off, scene and curtain in each room or area.

Product Characteristics

Inputs	IR receiver	TIS Infrared code receiver
	Using Panel Addition	2-3 Digital Inputs
Outputs	Using Panel Addition 3R	3 Relay Output 3A/5A
	Using Panel Addition 3DL-12V	12V DC 50mA Output
	Using Panel Addition 2DL-IRE	IR Emitter
TIS Bus	Number of devices on 1 line	Max. 64
	Bus voltage	12-32 V DC
	Current consumption	<35 mA / 24 V DC
Protection	Protection	Reverse Polarity Protection
		ESD Protection
Reaction time		approx. 20ms
Mounting	Wall mount	by 2 screws on the back box (UK, Europe, US)
Connection terminal	Data	2 mail pins connectors to fit in panel addition
Operating and display elements	12/8/4 Buttons	For controlling lights, scene, etc…
	Indicator LED	12/8/4 Blue and Orange LED
	Backlight	6/4/2 pairs of White neon LED
	TIS bus	TIS Protocol massages and commands
	Upgrading	1 X mini USB for up to date upgrading.
Functions	1 Press	ON/OFF/Scene
	Long Press	Dim or ramp the lights
	Double click	Extra Scene
	IR receiver	Music, scene, lights control
Weight	Without packaging	140 g
Dimensions	Width x length x height	90 * 125 * 15-21 peak
Housing	Materials	PC anti fire
	Casing color	Black/Titanium, Silver, White, Champaign, coal, Bronze or special color
	Internal Parts color	Black & White
Temperature range	Operation	-10…60°C
	Storage	-20…50°C
	Transport	-25…75°C
Air humidity		<85% non-condensing

For installation steps and wiring diagram please read "Mars Panel installation steps" and "Mars wiring diagram" documents.

Warranty
We provide a warranty as provided for by law.
Product serial number is provided by each device.
Please send the description of the defect with Product S/N to our dealer network.

info@tissmarthome.com
www.tissmarthome.com