Information Sheet – Rayzig

Rayzig is an Electrical power control system that has been designed to meet the needs of commercial, light industrial and Electrical Power Utilities.

Rayzig uses a combination of 2.4GHz wireless modules to achieve a mesh network, which may be extended to outlying buildings by use of cabled 'Bridges' – up to 500m with direct bridges, otherwise over an IP network. The 'bridges' allow the main network to extend to up to 6 sub-networks, and still be controlled from locations within the network.

Systems can handle a large number of modules using the Atmel Light Weight Mesh (LWMesh), and multiple networks, or sites, can be accessed using the Rayzig Site software.

Rayzig can operate a large combination of modules, both input and output, with control being direct from an input node to and output node, or through the use of Zones, Schedules, or Themes. A Home/Away feature allows a site to be set to a predetermined state on either leaving the building/site (away), or when entering the building/site (home). Rayzig Networks can be extended to adjacent buildings by use of direct 'Wire Bridges', or using existing IP Networks. Use of a Gateway in these 'Segments' allows additional control being capable.

The network and modules operate without the need for any 'co-ordinator' or 'instigator'. This means in the event of a partial failure of power in the building, the unaffected modules can still operate, and with Battery Input devices the number of modules affected by power outage is minimised.

The LWMesh will ensure that the best wireless signal route to, and from, a module is always chosen. Details of the routes can be shown. The mesh minimises the impact of a device failure, as alternate routes can be chosen by the network to reach the target module.

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Details of what is happening within an output module is recorded, and through the Gateway this information can be used externally to provide analysis of power usage and device usage.

Battery modules have a battery level indicator which can be set so that when the internal battery needs to be replaced a message can be shown on the Gateway TFT, or through the Rayzig Management Software.

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Raymon is the PC based Management Software for Raymon, which allows setup and control of modules, and the ongoing management of the system.

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It can be used to save information to a MySql database, review Module operations, access remote sites, and be used to manage site agreed module shutdown.

The Rayzig system is feature rich, and this Information Sheet can only give a glimpse into Rayzig's capabilities.

For more information please contact:

Rayzig Limited Ballalough House Smeale Road Andreas Isle of Man IM7 4JA

Email : Sales@Rayzig.com

