

Remote Airfield Monitoring & Control System (RAMICS)

Condition Monitoring and Control via SMS Messages

Designed for use with : GSM, NextG and Satellite data networks.

- ✓ *A simple and practical way to conserve your organisation's limited resources*
- ✓ *Save on overtime and fuel costs by cutting out unnecessary trips to remote sites*
- ✓ *Improved risk management*
- ✓ *Simplified maintenance*
- ✓ *Cost effective*

Made in Australia

WSSAviation products are made for airfield owners and operators whose critical requirements are long-term reliability, easy maintenance and remote monitoring ability.

What is RAMICS ?

RAMICS is an integrated system that provides the ability to remotely monitor and control the operational condition of airfield lighting systems and support equipment. RAMICS is highly cost-effective and feature rich. Consider:

- All night low intensity lighting
- High brightness pilot activated override
- 3 stage runway lighting intensity control
- Individual solar or hardwired circuit power options
- Knowing the operational status of EVERY airfield light
- Knowing the operational status of support equipment
- The ability to remotely activate lights and equipment
- Reporting of equipment maintenance status and trends
- Integrated diagnostics and maintenance routines.

RAMICS utilises SMS (Simple Message Service) text messaging available with all mobile phone networks. If GSM or NextG coverage is not available, RAMICS can be fitted with a satellite data interface for those really remote places.

Authorised users receive text messages to inform them of equipment status and conditions. Messages can be sent to initiate system operation, additional reports or test programs.

RAMICS can also monitor equipment made by other airfield lighting manufacturers. This is achieved by monitoring either a voltage, current or switch condition, which can then be used as a conditional input to determine the status of existing, standalone equipment.

RAMICS has 4 digital (on/off) inputs, 2 analog inputs and 4 relay outputs, so the capability for monitoring and control is excellent.

- Monitoring and testing of airfield lighting (PAL systems, windsock and runway lights).
- Monitoring security state of gates, buildings etc.
- Control/monitoring of generators, tanks etc.
- Monitoring weather conditions (weather station option)

Advantages

- + Near instant alerts of equipment status
- + Programmable monitoring times to suit different equipment types and reporting requirements
- + Ability to authorise (one or more) people to receive or send text messages
- + Low monthly data costs
- + Use existing mobile phones
- + Pre-emptive maintenance capabilities
- + Ability to control equipment remotely

How it Works

RAMICS monitors:

- + Battery connectors
- + Switch terminals
- + Relay terminals
- + Circuit currents

Once connected, the RAMICS program will monitor the status of these inputs and, if an alert condition is detected, automatically send an SMS text message to authorised recipients.

Depending on the action required for that particular site, RAMICS can either continue to monitor the status or automatically select one of its four output channels to switch external equipment.

Options

- + **GSM**
- + **NextG**
- + **Satellite data interface**
- + **Weather Station**

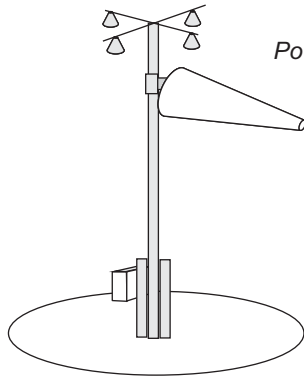
RAMICS utilises proprietary equipment designed and supplied by other Australian manufacturers.

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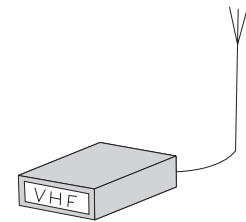
Condition Monitoring and Control via SMS Messages



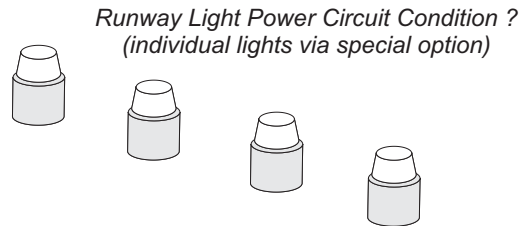
RAMICS Monitoring and Control Applications (typical devices that may be monitored by RAMICS)



*Illuminated Wind
Direction Indicator
Power Circuit Condition ?*

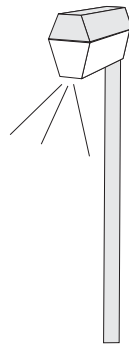
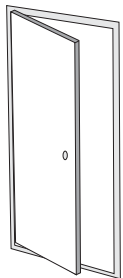


VHF Receiver Condition ?



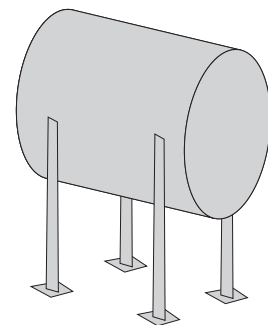
*Runway Light Power Circuit Condition ?
(individual lights via special option)*

Entry Door Condition?

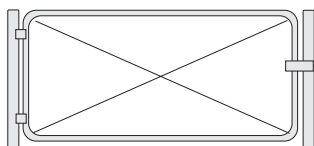
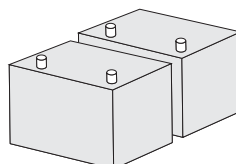


*Security Lighting
Circuit Condition ?*

Tank Levels ?



Battery Voltage ?



Gate Condition ?

NOTE that some types of equipment may need to be fitted with switches or similar devices to determine status