Floodlight control and facility monitoring system

Description

Halytech Illuminator is an Australian control and monitoring system designed specifically for sports fields, parks and other public places.

It can easily be added to existing installations to provide sophisticated control of floodlights and sprinklers and to monitor and report system failures, intruders etc.

Field users are issued with unique PINs that enable them to control the lights directly. Lights can be activated remotely by sending SMS text messages from mobile phones or locally through a numeric keypad. Changes in schedules due to weather, time extensions and other unforeseen events are handled by the users themselves, requiring no facility administrator involvement.

Illuminator records every command, identifying the user that issued it. Recorded data is used to prepare billing information and usage reports accurate to one second. Reports can be automatically e-mailed once a day.

Each Illuminator has a built-in web server. Administrators can use any computer to remotely access an Illuminator. No special software is required. By using the familiar "web-browsing" approach, administrators can:

- Manually control all lights, sprinklers etc.
- Manage users and their PINs
- Retrieve stored data

In addition to controlling lights and other devices, Halytech Illuminator is able to monitor a variety of sensors including intrusion detectors, power meters, water level indicators etc. Abnormal sensor readings will trigger alarms, sending SMS messages to responsible parties.

Typical Applications

- Sport Fields
- Parks
- Tennis Courts
- Community Halls
- Clubhouses
- Public Toilets
**Benefits**

**Facility Administrators**
- Full remote control of all functions
- Remote access with any PC
- No intervention required due to schedule changes
- Reduced wastage - lights don’t come on until activated by the user
- Improved accountability - full log of all activity
- Reduced cost and response time - new users can be given access in a matter of minutes
- Improved efficiency - PINs can be notified by phone, no need to send physical items such as keys, access cards etc.
- Improved security - change PINs as often as desired
- Improved vandal and damage control - use alarms to notify break-ins, flooding etc.
- Simple installation and setup
- Designed and manufactured in Australia - readily available local support

**Users**
- Reduced cost - pay only for actual usage
- Increased convenience - no need to inform anyone of game cancellations or time extensions
- Increased convenience - turn on the lights while driving to the field, the lights are warmed up and ready on arrival
- Increased convenience - use your own mobile phone, no need to search for light switches etc. in the dark
- Increased convenience - No mobile phone? - Enter the same PIN using the keypad
- Increased convenience and security - no keys or access cards to lose or forget

**Specifications**

### General
- Dimensions (approx) 110(W) x 200(H) x 85(D) mm
- Weight (approx) 800g
- Operating Temperature 0 - 50 C

### Power Supply
- Input Supply Voltage Nominal 12V DC
- Input Current less than 120 mA

### Sensor Inputs
- Total number of inputs 8
- Input types¹
  - Digital, voltage free switch contact
  - Digital, voltage sense
  - Analogue, 4 - 20 mA
  - Analogue, 0 - 10 V

### Device Controls
- Number of controls 8
- Number of timers 8 (1 per control)
- Type Normally open relay contacts
- Contact Rating 1A 30VDC resistive
- Activation with browser, SMS reception, timer, alarm activation

### Alarms
- Number of alarms 8
- Type SMS transmission and/or control activation

### Data Recorder
- Capacity 10,000 records
- Time Resolution 1 second
- Download format CSV - compatible with all spreadsheet programs

### Communication Interfaces
- Ethernet 10 base-T, RJ-45 connector
- Cellular phone module Built-in NextG or GSM (as required)
- External antenna
- Keypad Input RS-232C

### Keypad
- Type 12 keys
- Power Supply Supplied by Illuminator

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¹ All specifications are subject to change without notice.