

## ZS3G-SMS Cellular I/O node

- **Pumps**
- **Motors**
- **Generators**
- **Refrigerators**
- **Freezers**
- **Fans**
- **Lighting**
- **HVAC systems**
- **Data centre alarms**
- **PLC I/O**

ZigSense model **ZS3G-SMS** is an out of the box ready for use monitor and control node utilizing standard GSM/3G cellular networks as its communications infrastructure to exchange SMS messages.

By sending SMS commands to the **ZS3G-SMS** cellular node, authorized users can remotely monitor and control up-to four digital inputs and four digital outputs wired to a wide range of industrial equipment, remote Irrigation systems, motors, pumps, generators, fans, lighting systems, PLCs and much more.

Using a standard mobile or smart phones, authorized users enter commands selected from a list of pre-programmed SMS messages. These monitor and control commands are sent to pre-defined cellular phone numbers by the user.

For every command sent by the user, the **ZS3G-SMS** cellular node returns SMS acknowledgement message advising the sender whether the command was successfully accomplished.

To maintain safety & security the **ZS3G-SMS** cellular node constantly checks the following conditions:

- A.** Was the message sent by an authorized cellular phone number.
- B.** Does the SMS message match the syntax programmed in the cellular node's non-volatile memory.

Erroneous SMS message syntax or commands sent by unauthorized users will be rejected. Rejection messages will be sent to the sending person and the administrator.

**Irrigation systems** •

**PIVOT alarms** •

**Poultry house alarms** •

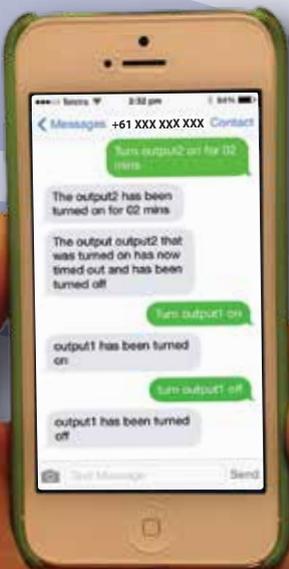
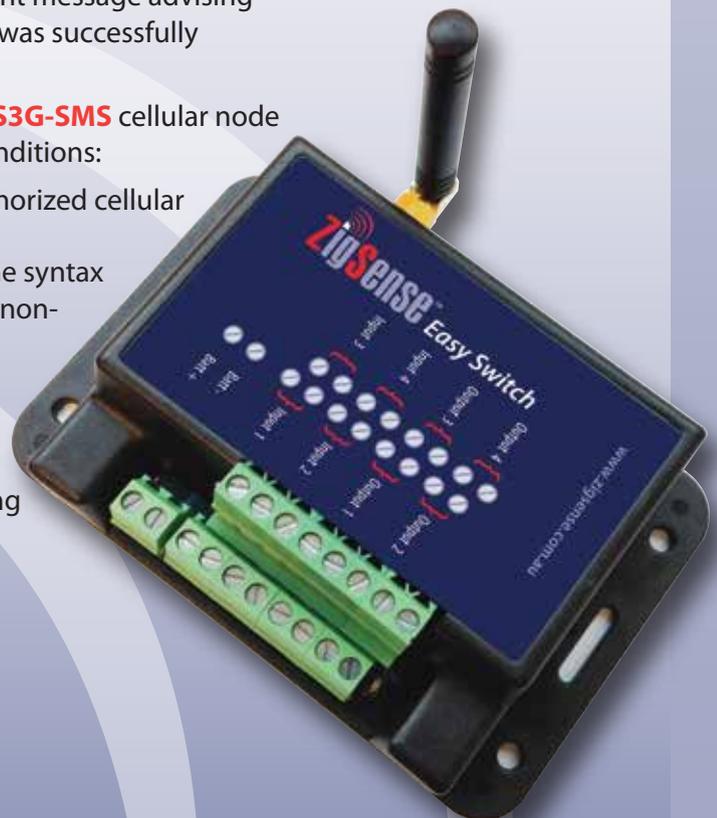
**Glasshouse alarms** •

**Cold storage alarms** •

**Gas alarms** •

**Garage doors control** •

**Domestic alarms** •



## ZS3G-SMS-2 Pulse Counter

**ZS3G-SMS-2 Pulse Counter** will count pulses generated by flow meters, water meters, gas meters or any device that generates pulse frequency of up to 100Hz.

The pulse counter supports 2 x Digital Inputs and 2 x Digital Outputs 'dry' relay contacts. One of the digital inputs can be set to a pulse counter.

**ZS3G-SMS-2 Pulse Counter** generates two variables:

1. Pulse Counter
2. Total calibrated pulses = Litres

The user can enable / disable the counter input by programming the 2nd Digital Input to Start / Stop counting.

The device can be programmed to send SMS messages and report when a set point has been reached.

The counter can either be Reset automatically or the operator may choose to send a manual Reset counter command.

After clearing its settings, the SMS IO controller can return to its standard SMS settings.



## ZS3G-SMS-2 Tank Level

**ZS3G-SMS-2 Tank Level** is designed to monitor liquid or grain level in tanks and silos using a pressure sensor or any Analog signal in the range of 0 – 5VDC.

The tank level controller supports 2 x Inputs where one Analog input monitors the tank level and the other monitors digital conditions. The device also supports 2 x Digital Output 'dry' relay outputs.

The **ZS3G-SMS-2 Tank Level** sends an SMS message reporting the level based on time or on a pre defined set point.

After clearing its settings, the SMS IO controller can return to its standard SMS digital IO controller mode.





## ZS3G-SMS Cellular I/O node

**Cellular network:** 2G/3G quad frequency

**SIM Card:** Standard size cellular SIM

### Number of Digital IOs

**ZS3G-SMS-2:** 2xDigital Inputs + 2xDigital Relay Outputs

**ZS3G-SMS-4:** 4xDigital Inputs + 4xDigital Outputs

**ZS3G-SMS-8:** 8xDigital Inputs + 4xDigital Outputs

**ZS3G-SMS-2 Pulse Counter:** 1xPulse Counter + 1xDigital Input + 2xDigital Relay Outputs

**ZS3G-SMS-2 Tank Level:** 1xTank Level + 1xDigital Input + 2xDigital Relay Outputs

**Input Voltage:** +24V Max

**Relay contact:** Resistive 125VAC 3A max (SMS-2, SMS-4)

**Relay contact:** Resistive 24VAC 0.5A max (SMS-8)

**Programming & setup:** SMS messages only  
No need for software

**Data retention:** 10 years

**Power supply:** +12 to +30VDC, 1A (not supplied)

### SMS commands (short list)

- Define administrator
- Add, Remove Users
- Name Inputs
- Name Outputs
- Program Inputs: Latch, Unlatch
- Program Inputs: Normally Open/ Normally Close
- Inputs to Outputs Link
- Force Output ON
- Force Output OFF
- Monitor supply voltage
- Monitor 'Heart Beat'
- Alarm Low supply voltage
- Point-to-Point commands (SMS-2)
- Factory Reset



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