

## long distance communication (RF comms.)

For wireless sensing, the now proven use of low power wireless 'mesh' networking, in conjunction with GPRS/GSM data communications, makes monitoring of remote sensors possible.

GPRS controllers can be used successfully on a wide range of mobile networks.



Sensor data can be presented in many formats, including text, e-mail, ftp & VPN.

Where there is no power available, ultra-low power sensors have the advantage of using 'power scrounging' techniques, they can use standard batteries, vibration, heat or solar power to provide the energy source they require.

Messages, data or machine integrity/status can all be quickly conveyed via wireless signalling anywhere in the world, to aid plant running, maintenance & reduce downtime.

Contact us for more details.

## your design - our manufacture (Sub-contract manufacturing)

Most system engineering companies or end users do not have electronic design or manufacturing facilities.

Located at its 4000 sq feet purpose built manufacturing facility in the heart of England, and with a fully equipped machine shop and electronic assembly section. Synatel is

## what goes around comes around (Step-a-Matic SML1)

Reliable material level detection is vital for anyone who has silo's or containers, and who is continually emptying & filling.

The Step-a-Matic rotary paddle control is a patented direct drive rotary level system, which eliminates problematic gearboxes & clutches. This results in a very reliable and robust unit, allowing for 'fit & forget' installation.

Unusually, the blade rotation is both clockwise and anti-clockwise, eliminating material compacting around the blade.

Adjustable torque control allows one paddle size to suit all materials.



With adjustable output timer, a multivoltage supply capability & volt free change over contact relay output, the SML1 is ideal for a wide variety of applications.

See our website for more details.

capable of conventional, surface mount and hybrid assemblies & can manufacture 'badge engineered' units to customer specification.



Contact us for more details.

## making heavy work of monitoring (Whirligig WGHD1)



Synatel speed monitors used with the 'Whirligig' mounting accessory have provided a reliable, flexible & easy to install rotation monitoring system, for rotating shafts & screw elevators, for many years. The system has been used in a wide variety of industries including animal feed, flour milling, cement batching plants etc.

Synatel realised that there was a need for a similar but more robust unit for heavy industries, such as mining & quarrying, and as a result have introduced the 'Heavy Duty Whirligig' (WGHD1).

This unit is made from machined stainless steel throughout with dual stainless steel sealed bearings, designed to meet the most arduous applications. The unit houses any of the Synatel speed monitors providing total protection from the environment.

It is fitted easily to a shaft using a 16mm tapped hole and, once calibrated, no other brackets/targets/adjustments are needed.

The 'Heavy Duty Whirligig' with a suitable Synatel sensor provides the perfect speed monitoring system for the most difficult applications.



See our website for more details.