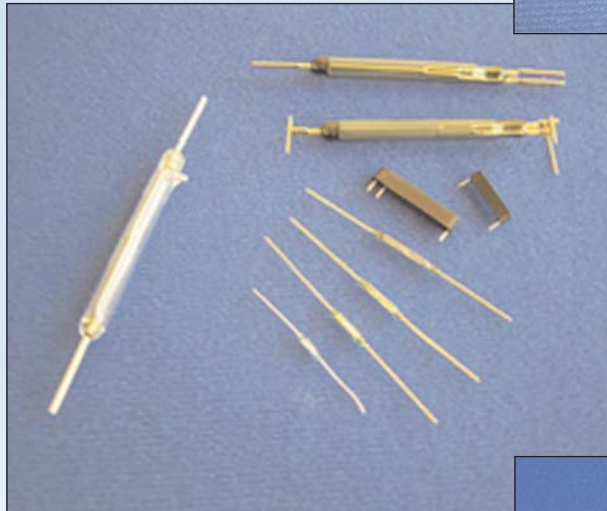
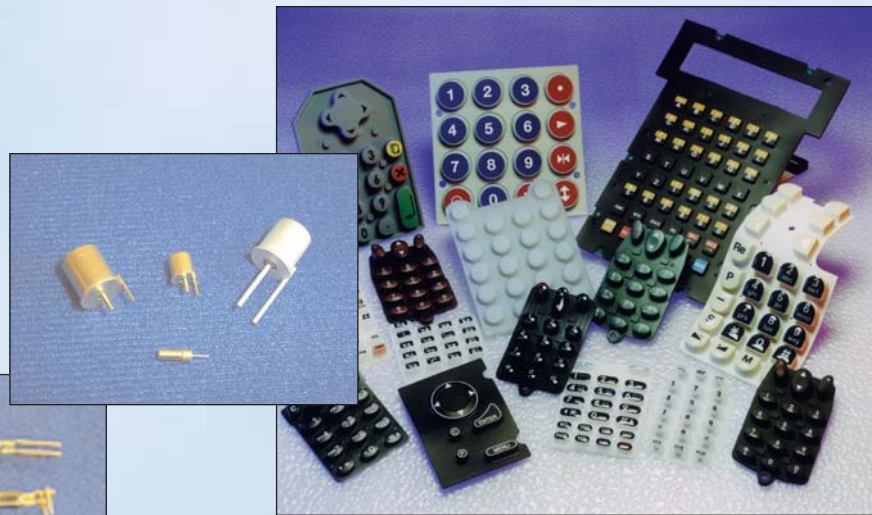
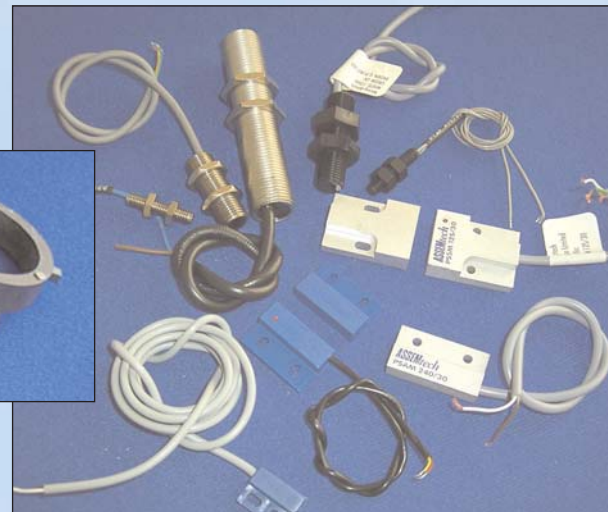


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 ISO 9001: 2000



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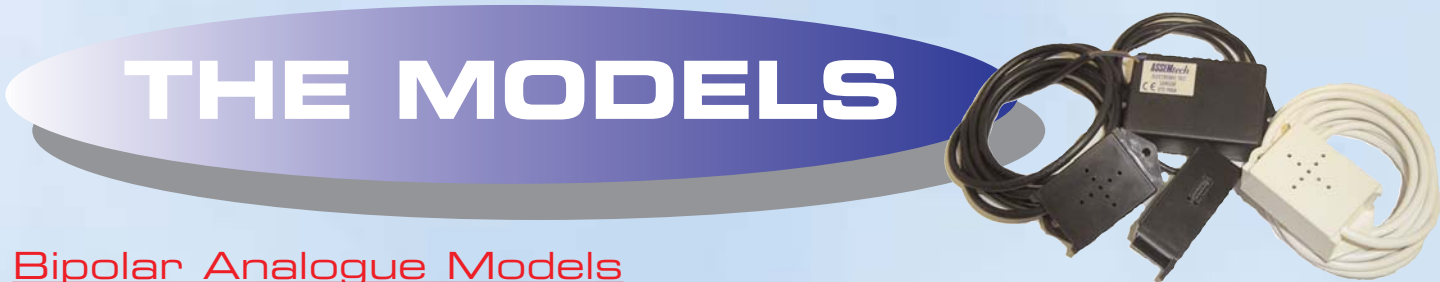
ETS 90



A versatile range of Electronic Level Sensors

The new ETS 90 family of electronic tilt devices from Assemtech Europe Ltd, are extremely versatile microprocessor controlled, MEM technology sensors providing angle measurement with a range of associated configurable output options.

All models provide accurate measurement of angles up to +/- 30 degrees with continued measurement up to +/- 45 degrees
 Standard features on all models include a 40V, 2A MOSFET output and full temperature compensation allowing units to maintain accuracy over a temperature range of -10 to +70 degrees centigrade.
 Analogue output versions are available in either positive or bipolar configurations.
 Closed-loop motor control versions allow direct control of dc motors at up to 24V, 4A in self levelling applications.
 Other available models include multiple switched MOSFET outputs and (in the future) digital display models.
 Outputs may be via a hard-wired lead or a Datamate connector.
 An RS232 interface option permits customer configuration, if required, and visual (LED) and audio options increase versatility still further to cater for virtually any requirement.
 Custom design is our speciality, so if the above options do not satisfy your application then contact us to discuss your requirements with our design team on (01255) 862236.



Bipolar Analogue Models

- **ETS 90XA** - Single axis sensor with bipolar analogue output of 10mV per degree.
- **ETS 90DA** - Dual axis sensor with bipolar analogue output of 10mV per degree.
These models have an output of 0V when the sensor is horizontal, with a voltage swing of between -450mV and +450mV depending on the angle.

Positive Analogue Models

- **ETS 90XP** - Single axis sensor with positive analogue output of 50mV or 100mV per degree.
- **ETS 90DP** - Dual axis sensor with positive analogue output of 50mV or 100mV per degree.
These models have an output of either 50mV or 100mV per degree with a horizontal output or either 2.5V or 5V. The output swings either side of the nominal horizontal voltage depending on the angle, but never goes negative.

All analogue sensors have one logic output and one MOSFET output per axis. These are enabled when the measured angle is greater than the configurable pre-set levels.

Motor Control Models



- **ETS 90SL** - Single axis sensor with closed loop motor control.
- **ETS 90DL** - Dual axis sensor with two separate closed loop motor control circuits.

These models incorporate DMOS full bridge driver circuits in a closed loop control system, ideal for self-levelling applications. Maximum output 24Vdc, 4A.

There are two logic inputs which may be used as a limit switch or emergency stop input. Each axis also has a MOSFET output configured either on or off when the motor is running.

Switched Output Model

- **ETS 90SS** - Single or dual axis sensor with up to four switched MOSFET outputs per axis.

Options

- Option D** - Output Connector. The standard sensor comes with a hard wired 1 metre lead. This option brings outputs onto a 6 + 6 way Datamate connector giving much greater installation flexibility.
- Option L** - LED indicators. Five LED indicators (nine for dual axis types) provide a simple spirit level type indication of the measured angle. Only available for some models of ETS 90SS.
- Option R** - RS232 interface. This option allows all configurable parameters to be customised by connecting to a terminal or PC. Includes 1.5metre lead with mating connector, and 9 way D type connector for serial port connection to PC.
- Option S** - Audio alarm. A small internal sounder operates when an alarm level is reached. Only available for some models of ETS 90SS.

Option combinations are possible, but would depend on the model required. In each case feel free to discuss your requirements with our sales office.

Applications

- Analogue versions allow information to be fed to data loggers or PC's for longer term tilt measurement / analysis.
- Safety alarms / correction action feedback for wheelchairs, stair lifts, cranes, forklift trucks, cleaning cradles, x-ray tables, hospital beds.
- Industrial and domestic equipment installation / checking, vehicle / caravan levelling.



Handheld level indicator with torch and electronic compass

If you require further information, such as drawings and datasheets, or if you require a quotation, then please fill in your details below and fax back to us on (01255) 862014.

Name:.....Company:.....

Address:.....

Phone:.....Fax:.....

email:.....

Visit our website: <http://www.assemtech.co.uk>

Brief enquiry details:.....

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