Who we are

Geosense Ltd is one of Europe’s leading manufacturers and suppliers of instrumentation to the geotechnical, civil engineering, mining and environmental industries. We have more than 25 years experience of providing quality products and assistance to a loyal and varied customer base.

We are proud of our reputation for high quality products, reliability and service.

The company operates from purpose-built headquarters in Suffolk, England. This 1,100m² premises houses a range of specialist process equipment which allows for the highest quality of production, calibration and testing.

Geosense started as a division of Marton Geotechnical Services Ltd, which was established in 1988 providing products for environmental, geotechnical, rail and civil engineering applications and now has an annual turnover in excess of £13 million. Such has been the success of the Geosense brand that it is now an independent Limited company.

We have the dynamic attitude of a young organisation, as well as the tradition and experience of a long established company.
Quality products, reliability & service
Philosophy

Our philosophy is simple: to provide our customers with quality products at competitive prices with the best possible service, technical support and after care.

We promise to ensure you find the best possible solution for each specific project requirement - and to get it delivered when you need it.

We take a consultative sales approach, treating our clients’ projects as if they were our own. Our engineers utilise their experience in the lifetime function and performance of the monitoring systems we supply to help you make the right decisions.

Integrity is an important part of our philosophy - we are proud of the working relationship we have with our customers. We like to think people come back to Geosense because they know they can rely on us.

And when things occasionally do go wrong when you’re out on site - and let’s face it, they always do when you’re really up against it - you can be assured we’ll always do our utmost to help.
We don’t consider our job done until your job’s done
Manufacturing

With a comprehensive in-house design and manufacturing capability we can provide products not only to tight deadlines but also to suit custom-engineered solutions for specific project requirements.

Geosense specialises in the manufacture of vibrating wire, MEMS and fibre optic sensors, which are used to produce a wide range of instruments. In addition we manufacture automated data acquisition systems to complement our sensors and a range of inherently safe pneumatic pumps for use in the environmental sector.

The company's purpose-built 1100m² premises houses a range of specialist process equipment for machining, heat treatment, micro tig welding, swaging, load and pressure testing, PCB, electrical and mechanical assembly.

We offer the highest quality instrumentation and provide the necessary technical support and field-proven engineering experience. All components are manufactured using CAD-CAM and CNC techniques and together with rigorous inspection under our ISO 9001 quality management system this ensures products are of the highest quality.

Service & Repairs

Geosense products are designed to be durable but we are also aware of the importance of after-sales assistance. We therefore offer a complete service of repair and maintenance.

We understand the importance of keeping your instruments fully serviced and calibrated and that during a service, it can be necessary to provide cover to continue with critical monitoring. That’s why we offer an instrument rental service which can help to minimise downtime during a servicing period.
We don’t just make things, we believe we are manufacturing solutions
Geosense is committed to developing new products to meet our customers’ needs. Our engineers are always working on the development and continual improvement of products and are on hand to help and advise our customers.

Our manufacturing facility incorporates CAD, CAM, and CNC manufacturing techniques.

Our engineering design team also prides itself in working with clients to create purpose-designed or specially adapted products to meet specific project requirements. No two installations are the same and with our team of trained, qualified and experienced machinists and assemblers, we are able to provide custom engineered solutions to solve site-specific problems.

Quality

Our instrumentation embodies the highest standards of engineering, the latest technology and an accredited quality control system to achieve maximum reliability and long term performance.

We are committed to quality in management responsibility, design control, inspection and testing, delivery, internal quality audit procedures, training and servicing. With ISO 9001:2008 certification, Geosense guarantees to customers that a quality control management system is in place and being strictly followed.
In this industry, no two installations are the same
Worldwide Distribution

Of course it’s not just about finding the right product. It has to arrive in the right place, at the right time and for the right cost.

Our warehouse and logistics team is a vital part of our service.

With more than 25 years experience of shipping products overseas, our logistics department can organise deliveries to anywhere in the world and deal with all the necessary paperwork to ensure there are no hold-ups in transit.

With many products available from stock and a state-of-the-art stock control system, plus an extensive network of delivery options, we are usually able to meet even the tightest of delivery deadlines.

We have extensive experience in preparing goods for delivery around the world using the most cost effective options. Our instruments are also supplied worldwide through a growing distribution network.
If we say we can deliver, we will
Technical Support

We provide an extremely high quality of technical support in order to ensure the correct instruments are selected for each application, to help customers with on-site supervision where required and after installation to solve any problems customers may have with data interpretation, software and general troubleshooting.

Our team consists of highly trained and experienced professionals who are available to provide and assist you in selection of instrumentation, training, installation methods and troubleshooting, plus the modernisation and optimisation of existing monitoring systems.

We are also just a phone call away to help with queries relating to installation, the configuration of instruments, measuring systems and software.

Training

We offer extensive training services - whether you want one-to-one technical guidance on a specific product or a more general basic training session for a group of engineers.

Our engineers and technicians are happy to tailor sessions to meet your requirements - either at your workplace or at our in-house training centre. We've found it is a cost effective way of bringing everyone up to speed.

Typical sessions cover installation procedure, configurations and the use of measuring systems plus hands-on sessions for particular instruments or software.
In-house training - a cost effective way to bring everyone up to speed
Our product range

Geosense manufactures geotechnical and structural instrumentation for monitoring the safety and stability of civil and mining structures such as dams, tunnels, mines, foundations, piles, embankments, retaining walls, slopes, subway systems, underground powerhouses, bridges, culverts, pipelines, shafts, excavations, tiebacks, nuclear waste repositories and ground water remediation schemes.

Based on state-of-the-art technology, our products are built to an accredited quality control system and designed to withstand the challenges of the most extreme environments.

Geosense specialises in the manufacture of vibrating wire sensors which are used to measure strain, load, force, pressure and temperature and are universally recognised for their long-term stability within the harsh environments often found in civil engineering construction sites. Vibrating wire is now widely accepted as the most suitable technology for geotechnical applications worldwide.

Geosense also supplies a full range of other instrumentation including inclinometers, tilt sensors, piezometers, data loggers and readouts, settlement systems, convergence monitors, strain gauges, crackmeters, jointmeters, load cells, pressure cells and extensometers and other made-to-order custom items.

Many products are kept in stock and are readily available.
Our products are built to an accredited quality control system
Products

INCLINOMETERS
Portable
In-place
Spiral Sensor
Inclinometer Casing

TILT SENSORS
In-place
Portable
Tilt Beam
Track Monitoring System

PIEZOMETERS
Vibrating Wire
Multi-point
Strain Gauge
Pneumatic

EXTENSOMETERS
Magnetic GEO-XM
Borehole Rod GEO-XB
Measuring Anchors
VW Soil Extensometer
Measuring Anchors

JOINT & CRACK METERS
VW Crack Meters
VW Joint Meters

SETTLEMENT SYSTEMS
Rod Settlement System
VW Liquid Settlement System
VW Settlement Profiler

ANCHOR LOAD CELLS
VW
Hydraulic
Strain Gauge

PRESSURE CELLS
NATM
Total Earth

STRAIN GAUGES
VVW Surface Mount
VVW Embedment
VVW Spot Weld
VVW Rebar Strain Meter
VVW Sister Bar

READOUTS
VV
Temperature
Analogue
Digital
Pneumatic

DATALOGGERS
Geologger GL Series
Geologger G6 Series
Single & Multi Channel
Multiplexers
Surge Protection

WIRELESS
Wi-SOS 100, 400 & 800

SOFTWARE
GeoAxiom Vista
Inclinometer Software

TEMPERATURE
Thermistors
VW Temperature Sensor

FIBRE OPTIC
Temperature
Strain
Leak Detection

MISC
Cables & Accessories
Survey Accessories
Carlson

www.geosense.co.uk  Telephone +44 (0) 1359 270457
Our custom-engineered solutions solve site-specific problems
Projects

Geosense has been supplying geotechnical instrumentation worldwide since 1992. From basic instruments to completely customised configurations, our experienced and knowledgeable staff have fulfilled the needs of major engineering projects worldwide.

We have supplied many major construction projects which have taken place in the UK, as well as high profile international assignments.

DAMS, RESERVOIRS AND ASSOCIATED PROJECTS
Our instrumentation has been used worldwide in the monitoring of dams, reservoirs and associated projects.

Equipment supplied includes:
- Piezometers
- Inclinometers (manual & automated)
- Extensometers (magnetic & rod)
- Water Level Monitoring
- Settlement Profile Systems
- Seepage Monitoring
- Pendulum Systems
- Automatic Alarm Messaging Telephone, GSM or Internet

RAILWAYS
Recent railway projects include providing instrumentation for several Crossrail projects, Europe's largest civil engineering construction project and the construction of the Channel Tunnel Rail Link.

Equipment supplied includes:
- Piezometers
- Inclinometers (manual & automated)
- Tilt Meters
- Tilt Beams
- Track Monitoring System
- Automatic Alarm Messaging Telephone, GSM or Internet
Supplying geotechnical instrumentation worldwide
Projects

STRUCTURAL MONITORING PROJECTS
Geosense has supplied monitoring equipment for the safety and stability of all categories of structures. Recent structural monitoring projects include the Green Park Station and Victoria Station Upgrade programmes for London Underground.

Sensors supplied include:
- Tilt Meters
- Tilt Beams
- Extensometers
- Strain Gauges
- Settlement Sys
- Settlement Systems
- Vibration Monitoring

TUNNEL MONITORING PROJECTS
Geosense manufactures a range of tunnel monitoring equipment, covering everything from new construction to refurbishment and the effects of adjacent operations, including software-based monitoring and control systems for major international infrastructure projects.

Equipment supplied includes:
- Convergence Systems
- Tilt Meters
- Tilt Beams
- Extensometers
- Strain Gauges
- Crack Meters
- Strain Gauges
- Pressure Cells
- Data Transmittal to Surface via Modem/Ethernet/Radio
- Software for easy data handling and interpretation

EARTHWORKS, EXCAVATIONS & LANDSLIDE MONITORING
Geosense products are built to an accredited quality control system and designed to withstand the challenges of the most extreme environments.

Systems installed include:
- Inclinometers (manual & automated)
- Extensometers (magnetic & rod)
- Ground Water Level Monitoring
- Porewater Pressure Monitoring (vibrating wire, pneumatic and hydraulic piezometers)
- Settlement Profile Systems

www.geosense.co.uk  Telephone +44 (0) 1359 270457
Helping to shape the infrastructure of tomorrow
Testimonials

‘Geosense’s excellent product range coupled with expert technical knowledge and after-sales back-up assistance enables us to provide a high quality product to our clients. We particularly value their after-sales customer commitment, often going above and beyond what is expected to offer technical support and assistance for any of their products.’

Adrian Jonson, Monitoring Division, Site Engineering Surveys Ltd

‘Geosense have been an integral part of our supply chain for instrumentation from our formation. We would consider our relationship as more of a partnership. We have always been impressed with their attention to detail, speed at providing instrumentation and their excellent customer support. We have also been impressed by the common sense way they do business and their willingness to adapt to their customer’s requirement and to assist us with the eventual delivery.’

Paul Thurlow, General Manager, GeTec UK, a Trading Division of Keller Ltd

‘Their sales team has always provided an efficient, personal service, and back this up with in-depth technical assistance when required. Their friendly team puts great effort into understanding our requirements and providing what we need quickly and efficiently.’

Dr Gary Holmes, Engineering Manager, WJ Groundwater Ltd
A few of the clients using our products