

# KNOW NO LIMITS

---

The only way of finding the limits of possible is to go beyond them



# Engineers have always sought to transcend barriers, overcome challenges – continually looking to push the fundamental capabilities of engineered technology further

For over 40 years Mantracourt has been helping engineers (safely) break the boundaries of possible, from automotive to space exploration.

In the 21st century we already enjoy many engineering discoveries that only 20 years ago would never have been thought possible, and yet there are still many more great challenges and opportunities remaining to be realized.

Mantracourt is a specialist provider of measurement technology, and a world leader in the application of microelectronics, with an in-house design and manufacturing capability able to provide proven, technologically advanced products that enable you to test the realms of possible.

Challenge us with your project and KNOW NO LIMITS.



## COVER IMAGE

Mantracourt are proud sponsors of the Bloodhound Project – a global engineering adventure to break the 1000mph world land speed record.



We have unparalleled expertise in the field of instrumentation typically used within load cells, strain gauges, pressure sensors, torque transducers, flow sensors, temperature sensors and other ratio metric sensors.

## OUR EXPERTISE

We are proud to be recognised as industry leading experts in the following disciplines:

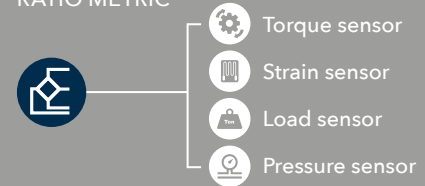
- ▾ Strain gauge and load cell signal conditioners
- ▾ 2.4 GHz wireless protocols, Bluetooth LE telemetry, low noise analogue and digital design
- ▾ Ultra high performance analogue to digital converters
- ▾ Fieldbus areas, including Modbus, ASCII and CAN
- ▾ Hazardous areas (ATEX and IECEx)
- ▾ Software design capabilities for toolkits, drivers (DLL's), web-based delivery IoT, LabView and embedded software

## CORE PRODUCT TECHNOLOGIES & BENEFITS

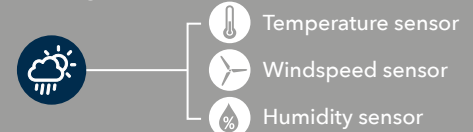
	<b>ANALOGUE</b>	<ul style="list-style-type: none"> <li>▾ Traditional method</li> <li>▾ High speed</li> </ul>
	<b>DIGITAL</b>	<ul style="list-style-type: none"> <li>▾ Simple configuration</li> <li>▾ Data integrity</li> <li>▾ Improved diagnostics</li> </ul>
	<b>WIRELESS</b>	<ul style="list-style-type: none"> <li>▾ Reduces installation costs</li> <li>▾ Suitable for non-static applications</li> </ul>

## SENSORS WE WORK WITH

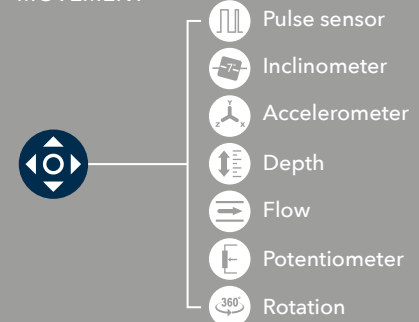
### RATIO METRIC



### ENVIRONMENT



### MOVEMENT



### CONDITIONED





## THE CHOICE OF WINNERS

### WIRELESS TELEMETRY SENSOR SYSTEM



High accuracy, high quality measurement is interfaced with powerful configuration and monitoring software. The system easily replaces wired systems, reducing installation and maintenance costs, and provides sensor manufacturers and integrators with the flexibility to build their own sensor modules around it.

## T24 OEM AUTOMOTIVE CASE STUDY: A WINNING FORMULA

Learn how the T24 wireless telemetry system increased the reliability, repeatability, speed and accuracy of door



seal gap measurement to prevent water and wind noise.



## MADE FOR SPEED

### FSU-SSB FAST USB STRAIN MODULE



Test drive our high precision strain bridge input module when you need high resolution readings for dynamic applications. The FSU-SSB connects directly to a PC allowing quick setup and data is measured using the powerful toolkit software.

## POWERFUL TOOLKIT SOFTWARE



Easy to use, intuitive software provides fast optimised viewing and analytical tools for configuration, data review, 30 mins of data capture, FFT frequency analysis and a simple oscilloscope view.



## UNLOCK THE VALUE OF YOUR DATA

### STRATUS® CLOUD PLATFORM



Our new Cloud platform offers browser based access to data collected from the T24 telemetry instrumentation anywhere, at any time. Send data to the Cloud from our T24 range of hardware and software gateway solutions.

## THE SKY'S THE LIMIT

View and analyse data, configure actions and alerts based on your real-time data and unlock the value of your data through intuitive visual tools. Explore features and functionality online.



## Custom engineering is at the heart of our business - challenge us to push the boundaries of possible

We create new and technologically advanced products that meet your exact requirements with our complete design and manufacture service for OEM's.

### IN-HOUSE DESIGN TEAM & LAB

Without a doubt, our key asset is our engineers - in total, we have six engineers supported by three technicians - with a fully equipped laboratory, including specialist EMC and RF test equipment, that is used when developing products and making prototypes. Their skills include Analogue Circuit Design and specialise in High Accuracy, High Stability Strain Bridge Measurement design, many of which are micro-controlled and use the latest in 8 and 32 bit processors.

### COST EFFECTIVE WITH PRODUCT ASSURANCE

We can also provide cost effective OEM solutions by modifying our existing products to meet your specific needs, drawing on our design portfolio of over 1000 designs. These products benefit from the assurance of a tried and tested design platform.

### FLEXIBLE & TIMELY MANUFACTURE

Our state of the art manufacturing facilities offer reliable, flexible and timely production whether your custom requirement is small or large. Quality is key, and continuous investment in our equipment and automation enables us to achieve extremely high levels of repeatability. Certification to ISO standards shows we adopt a continuous improvement approach to service and quality assurance.

*"We worked closely with the engineers at Mantracourt to create a wireless solution to suit our exact requirements. Their superior expertise and highly responsive technical support proved invaluable in producing our end solution".*

Nick Turicek, Account Relations Manager, Inora





 +1(888) 228-8753 toll-free  
 [mantracourt.com/autotestexpo](http://mantracourt.com/autotestexpo)  
 [usasales@mantracourt.com](mailto:usasales@mantracourt.com)

View all products at [mantracourt.com](http://mantracourt.com)



COMPANIES WE WORK WITH

