

## MEASURES

### TEMPERATURE CALIBRATION (AOIP)

Wide measurement range and high accuracy.  
User-friendly.  
Compatible with DATACAL software.  
Portable.



### PRESSURE CALIBRATION (AOIP)

Wide measurement range and high accuracy.  
Easy to use and calibrate.  
Portable and robust.  
Calibration certificate included.



### MICRO-OHMMETER (AOIP)

Ultra-precise measurement : down to 0.01  $\mu\Omega$ .  
Compensation for temperature and electromagnetic forces.  
Data storage : memory and transfer.



### PYROTECHNICAL (AOIP)

Integrated safety with continuity and insulation testing.  
Reliable and safe.  
Easy to use.



### HIGH DYNAMICS (Kistler)

Explosive measurement (airbag).  
ATEX testing.  
Internal ballistics.



### TEST & MEASUREMENT (Kistler)

Wide measurement range.  
Various sensors with piezoelectric technology.  
Acquisition systems.

### TEMPERATURE & HR & WEATHER (Prosensor, LUMEL)

Humidity and temperature sensor.  
Complete weather stations.



# ACQUISITION

## KiDAQ (Kistler)

Wide range of modules : analog and digital.  
Various enclosure options : rack, portable, DIN rail.  
KiConnect communication : protocol for PC connection.  
PTP synchronization : time precision between modules.  
KiStudio Lab software : complete management of measurement tasks and projects.



## NVGate Solutions (Oros)

Teamwork Instruments OR3x  
High resolution for precise measurements.  
Portable : robust, lightweight case designed for mobile use.  
2 to 32 channels, bandwidth up to 40 kHz, cascaded capability.  
Ethernet, AC/DC power, removable 128 GB SSD.

## SensorProbe - SPx (AKCP)

Modular and scalable architecture.  
Multi-sensor acquisition.  
Configurable sampling.  
Interchangeable modules and sensors.  
AKCPro Server software.



## OXYGEN (Dewetron)

Modular and flexible architecture.  
High sampling rate : up to 10 MS/s.  
Interchangeable modules.  
OXYGEN software: synchronized acquisition, advanced analysis, multi-format export, remote control via OXYGEN-NET.  
Multiple connectivity options : USB, Ethernet, CAN, Modbus...



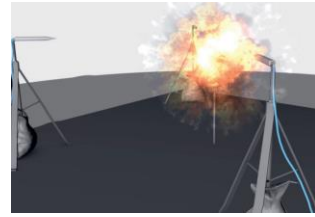
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# ANALYSIS

## BALLISTICS (Kistler)

High-sensitivity piezoelectric technology.  
Very high sampling frequencies (>1 MHz).  
Projectile initial velocity measurement.



## BIOMECHANICS (Kistler)

Precise 3D measurement of forces, moments, up to 10 kHz.  
Piezoelectric technology, high accuracy, low drift.  
Synchronization with motion capture systems.



## THERMAL ENGINE (Kistler)

Piezoelectric technology with integrated cooling.  
Real-time engine cycle measurement.  
KiBox units : data recording and processing.



## DYNAMIC WEIGHING IN MOTION (Kistler)

Piezoelectric technology ( $\pm 2$  to 15% of gross weight).  
Automated tire detection without tilted sensors.  
Standardized interfaces.



## TORQUE FORCE (Kistler)

Piezoelectric technology for dynamic measurement.  
Stationary and rotary dynamometers.  
Integration on test benches with dedicated acquisition.

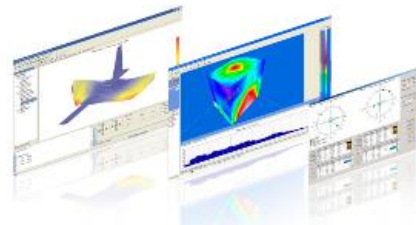


## VIBRATION MONITORING (Oros)

Standalone monitoring with periodic recording.  
Customizable alarm responses.  
Remote data access via local or remote server.  
Full integration with Oros software.

## NOISE (Oros)

FFT analysis, 1/N octave band, TDA, and sound level meter.  
Measurement and certification of acoustic power.  
Noise source localization.  
Sound transfer path analysis.



## ROTATION (Oros)

Order analysis, vibration and roto-dynamic analysis.  
Spectral and order diagnostics. Vibration measurement.  
Recording and remote access.



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PORTFOLIO **INDUSTRY** 2025

**MEASURES**

**ACCELERATION** (Kistler)  
Wide range : Inclometers, Accelerometers.  
Type: Mono axial or Triaxial, Charge or IEPE.  
For industrial applications.

**TORQUE** (Kistler)  
Measuring ranges : from 0.2 Nm to 10,000 Nm.  
High precision and dynamic performance.  
Transmission via slip ring or contactless (Kiford).  
For industrial applications, test benches, and R&D.

**DISPLACEMENT** (Kistler, S2 Tech)  
From 10 mm to 750 mm.  
Accuracy: linearity  $\pm 0.1\%$  depending on the model.  
Repeatability up to  $\pm 2 \mu\text{m}$ .

**FORCE** (Kistler, S2 Tech)  
Piezoelectric technology.  
Partially calibrated ranges.  
Dynamic and quasi-static measurements.  
Standard or custom solutions.

**LEVEL** (STS, IWT, Nivelco)  
Vibrating forks, Rotary paddles, Ultrasonic, Radar.  
Level measurement or detection — for liquids or solids.

**PRESSURE** (Kistler, Ascon Technologic)  
Piezoelectric technology, wide measurement ranges.  
Dynamic and quasi-static measurements.  
Piezoresistive technology for static measurements.

**TEMPERATURE - HUMIDITY** (Prosensor, LUMEL)  
Thousands of references.  
Standard and custom manufacturing.  
Low and high temperature ranges.

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PORTFOLIO **SOLUTIONS** 2025

**INDUSTRY SOLUTIONS**

**PLASTICS INDUSTRY** (Kistler)  
CombiScan : Real-time measurement of pressure and temperature in molds. Automated control with assistance algorithms and AI based quality prediction.  
CPC UA communication.  
CombiCool : Monitoring of non-connected machines via machine signals and external sensors.  
Specialized modules available.

**ASSEMBLY** (Kistler)  
Electromechanical servo presses for precise assembly.  
multiPress : Real-time process monitoring and control.  
Sensors ensure quality control and traceability.

**MANUFACTURING** (Kistler)  
Piezoelectric technology and high-precision servo presses.  
Online control platforms.  
Industry 4.0 integration for smart manufacturing.

**PROCESS CONTROL** (Ascon Technologic)  
Independent control loop.  
PID regulation.  
Applications : Bakery, Chocolate, Brewery, Wine production.

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PORTFOLIO **TAILOR MADE** 2025

**PROJECTS**

At BTFmesures, each project begins with a rigorous and tailored design phase.  
We analyze our clients' specific needs to create efficient, customized solutions.

**Analysis**  
Active listening  
Feasibility study  
Requirements specification

**Design**  
Proposal of innovative solutions  
Functional design  
Technical optimization  
Selection of best-in-class components

**Collaboration and Validation**  
Regular exchanges with the client  
Testing  
Competitive solutions

**Revamping**  
On-site intervention  
Product return and analysis  
Component replacement

**Availability, Independence, and Quality are our core values.**

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PORTFOLIO **VALVES** 2025

**ACTUATORS**

**Type ASC** (Sarasin Actor)  
Low Pressure.  
Single or Double Acting.  
Up to 1,000 Nm

**Type ASV** (Sarasin Actor)  
Low / High Pressure.  
Single or Double Acting.  
Up to 300,000 Nm

**Type ARP** (Sarasin Actor)  
Low / High Pressure.  
Single or Double Acting.  
Up to 600 Nm

**Type RC** (Sarasin Actor)  
Low Pressure.  
Single or Double Acting.  
Scotch Yoke Technology.  
Up to 8,000 Nm

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