



# AP DYNAMICS engineering

## FIELD SERVICES

Solving Tough Engineering Problems

**AP DYNAMICS** provides a complete range of **Field Measurement Services** for rotating or static equipment for troubleshooting, commissioning, baseline surveying, root cause analysis, continuous remote monitoring or design validation.

Our highly skilled engineers allow for solutions to **understand** the **physical behavior** of complex systems. We offer **high quality**, **cost-effective** and **client-oriented** project services using proven and **state-of-the-art Testing Equipment**.

### MEASUREMENT TESTING

- ✓ Vibration
- ✓ Modal
- ✓ Strain Gauge
- ✓ Field Balancing
- ✓ Torsional Vibration
- ✓ Pressure Pulsation
- ✓ Noise
- ✓ Infrared Thermography
- ✓ Condition-Based Monitoring Program
- ✓ Temporary/Permanent Remote Monitoring System

Can acquire 140 sensor measurements simultaneously  
Can be set up with remote access for condition monitoring and generate periodic reports on asset status

### TYPICAL APPLICATIONS

- ✓ Gas plants
- ✓ Compressor stations
- ✓ Liquid pumping stations
- ✓ Refineries
- ✓ Offshore production platforms
- ✓ Pipelines
- ✓ Water treatment facilities.
- ✓ Building Structures
- ✓ Turbines
- ✓ Continuous Monitoring of Equipment and Facilities

### TYPICAL PURPOSES

- ✓ Field Baseline Measurement Survey
- ✓ Field Troubleshooting
- ✓ Condition-Based Monitoring
- ✓ Preventive Maintenance
- ✓ Root Cause Failure Analysis
- ✓ Field Fan Balancing
- ✓ Start-up and commissioning baseline survey
- ✓ Excessive pulsations in piping systems
- ✓ Mechanical, acoustical, structural, or torsional resonance
- ✓ Installation problems including alignment, pipe strain
- ✓ Skid, foundation, and structural dynamics related problems
- ✓ Flow induced vibration, water hammer
- ✓ Supervision and validation of implementation of modifications

