

Overview

TAE LCO, with its expert team who have accumulated knowledge and experience in different fields, provides a wider range of technical solutions and services to its customers.

Fields of Expertise

► Experience

- TAI HÜRKUŞ-II (Training and Aerobatic Aircraft)
- Airbus A400M (Military Cargo Aircraft)
- Airbus A320, Airbus A340 (Passenger Aircraft)
- F-16 EWPOD and ESPOD (Central Station Pod)

► Mechanical Analysis and Design

- Offering aircraft and spacecraft analysis & design solutions compliant to recognized international standards (military and civil).
- Static Analysis (Strength, Stability, Aeroelastic etc.)
- Dynamic Analysis (Normal Mode, Forced Vibration, Random Vibration etc.)
- Fatigue and Crack Propagation Analysis
- Center fuselage structures for optimum load paths
- Center fuselage system layout structures for optimum load paths
- Concept/Detail Design of avionics enclosures

► Electronic Design

- Space compliant system development
- MIL-STD-704, MIL-STD-461, MIL-STD-810 compliant system development
- ARINC-429, MIL-STD-1553, RS-232, RS-422, RS-485, CAN protocols
- AC and DC power distribution units
- AC/DC and DC/DC converters, EMI filters
- BLDC and induction motor drivers
- Aircraft Environmental Control Units
- Combined pressure and temperature sensors
- Data acquisition systems

► Software

- DO-178C compliant embedded software development
- Desktop Control Interface Software (GUI)
- Aircraft Structure Analysis Software



Our Clients

Overview

Our mission is to offer high-quality turnkey solutions for the special design, manufacturing, installation, and support of electronic and mechanical systems required by the aerospace, space, and defense industries.

Products

► Aircraft Structural Analysis Tools

- **TAE LSS**: Skin&Stringer analysis
- **TAE LFR**: Frame analysis
- **TAE LSP**: Stiffened Panel analysis
- **TAE LLO**: Longeron analysis
- **TAE LCB**: CrossBeam analysis

► Avionics Design

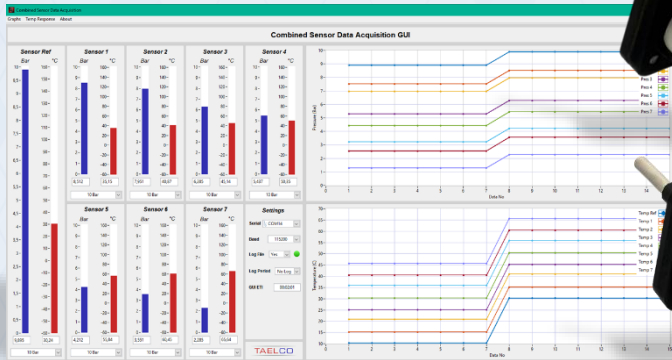
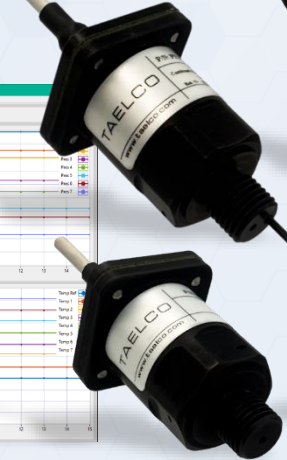
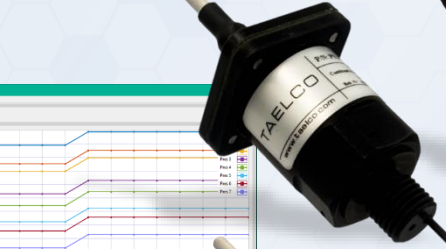
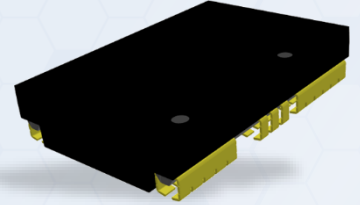
- **ECU/PDCU** : Environmental Control Unit / Power Distribution Control Unit
- **DC/DC Converter** 50W >%95 Efficiency (Prototyping Phase)
- **DAQ** Data acquisition systems

► Sensing Equipment

- **MPS** Pressure Switch
- **DPS** Differential Pressure Switch
- **DPC** Differential Pressure Sensor
- **PTSC & PTSW** Pressure and Temperature Sensor
- **PSC** Pressure Sensor
- **TSCL & TSC** Temperature Sensor

► Software

- **DO-178C** Embedded Software
- **Desktop Control & Field Test Software (GUI)**
- **Aircraft Structure Analysis Software**



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