FIBER OPTIC SENSORS

MEETING THE SENSING CHALLENGES
FOR THE NEXT GENERATION OF AIRCRAFT





Enlightenment through smart measurements

OUTSTANDING MEASUREMENT STABILITY SENSING SOLUTIONS

Sensors used to monitor critical aircraft components have to deal with challenging and hazardous conditions. Miniature and reliable, Opsens Solutions fiber optic sensors can measure multiple physical parameters through a single interface. They are immune to the most severe environmental disturbances and they are perfectly tailored for the next generation of aircrafts.

They can be used in numerous applications such as: fuel level management, weight and balance monitoring, deformation surveillance in composite material, hard landing detection, temperature sensing with high sampling rate.

Without need for regular maintenance, their light weight and highly reliable, Opsens Solutions fiber optic monitoring systems are becoming the next generation of monitoring equipment for many demanding aerospace related applications.



HIGHLY VERSATILE SENSING SOLUTIONS

- Deformation
- » Temperature
- » Pressure
- Load
- » Position
- >> Flow

DISPLACEMENT



DEFORMATION





• • • RELIABLE SENSING FOR DEMANDING ENVIRONMENT

- Explosive atmosphere in fuel application (ATEX)
- Pressurized environment such as hydraulics systems
- Installation in radome
- Can be embedded in composite structure
- Temperature range of -60 °C to 300 °C
- Landing gear conditions

SPECIFICALLY DESIGNED FOR THE AEROSPACE INDUSTRY

Not affected by EMI
Immune to lightning strike
Weight reduction
Space saving
Intrinsically safe
Outstanding stability
Static and dynamic measurements



EXTENSOMETER



TEMPERATURE SENSORS





PRESSURE SENSORS (absolute, differential, low profile)











OEM CARD

OEM-type signal conditioner that offers a product designed for specific aerospace needs. Its compact size and modular assembly give OEM's the best in design flexibility.



MODULAR PLATFORM

Providing scalable sampling rate up to 1 KHz, these advanced data acquisition systems offer comprehensive graphical user-interface environment via the interactive front touch panel.



HANDHELD UNIT

Ruggedized to provide good mechanical protection against intensive handling in tough environments. These devices are compact and offer maximum portability with battery powered function.

OUTSTANDING FIBER OPTIC SENSING SOLUTIONS FOR AEROSPACE INDUSTRY

KFY FFATURES

- Intrinsically safe
- Highly reliable
- Immunity to EMI and RFI
- Miniature and lightweight
- Versatile and easy to package in aircraft components
- Compatible with temperature range of aviation industry

TO KNOW MORE

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