



QUANTUMX MXFS

# Optical Measurement Excellence

QuantumX MXFS makes optical measurements easy, flexible, and competitive – according to your needs. It provides you with all the optical benefits of the BraggMETER technology: it is suitable for measuring various types of sensors, is reliable, and makes high quality long-distance measurement.



# Integrating Optical and Electrical Measurements into One Reliable System

## QUANTUM MXFS: HIGH-CHANNEL COUNT MODULE FOR TAILORED MEASUREMENTS

Connect up to 128 Fiber Bragg Grating sensors in one module with simultaneous acquisition. The new fiber optic sensing device offers eight optical connectors, with parallel acquisition, fitting 16 channels per connector. Your benefits are obvious: a cost reduction not only per measuring point but also for overall ownership.

Choose from two operating modes, normal speed mode, with 100S/s acquisition rate or high speed mode, with 2000 S/s acquisition rate, for flexible monitoring applications.

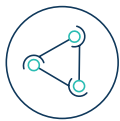
QuantumX MXFS allows for the integration of precise and stable optical fiber measurements. FBG sensors are easy to install, electromagnetically safe and can also be used in highly explosive atmospheres. Measurement of strain, temperature, acceleration, load and tilt are all possible.

**Questions? Contact us!**

## KEY FACTS

- **128 channels** per module, divided into **8 optical connectors** with **100nm** wavelength range
- **Selectable acquisition rates** (2000S/s or 100S/s)
- Compatible with the powerful **catman® software** but also **open to other software**
- **Smart Peak Detection (SPD)** at dynamic acquisition rate
- A reliable QuantumX DAQ module, which can also be used as a **stand-alone device**

## BENEFITS



### Easy to integrate

MXFS offers **all the benefits** of the **QuantumX** series such as easy handling and compatibility with catman software.

- Scalable module of the reliable QuantumX DAQ system
- Simply "Plug and Measure"
- Endless intelligent combinations for data acquisition



### Flexible and efficient

MXFS offers a **high sensor density and multifunctional use**.

- Single point measurements of large sensor networks
- Smart Peak Detection (SPD) at dynamic acquisition rate
- Two selectable acquisition modes (100 S/s / 2000 S/s)



### Resistant and stable

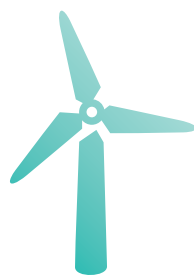
Accurate and precise measurements with **FBG technology**.

- Long-distance measurements, also in harsh environments
- Immunity to EM and RF interferences
- High strain and high resistance to fatigue without any zero drift

## MAIN APPLICATIONS



Civil Engineering



Wind



Railway



Automotive