Description

The FAZT FEMTOSENSE GATEWAY supervisory software is used for monitoring the performance of one or many interrogators, for recording their sensors' data, and for storing and/or further distributing the data, as required by the application.

Designed with larger scale systems in mind, the FEMTOSENSE GATEWAY supports monitoring of up to eight (8) interrogators simultaneously. The software interfaces seamlessly to any interrogator model in the FAZT product family, including the "Workhorse" and OEM models.

The FEMTOSENSE GATEWAY software is an optional package available for optical sensing system architects and is particularly well fit for larger scale systems that require data collection and recording for hundreds (100's) of sensors at scan rates of up to 8kHz. The FEMTOSENSE GATEWAY can connect to multiple interrogators in synchronous and asynchronous mode.

Benefits

Enables large scale data management, storage and distribution of ultimate precision, repeatability and accuracy measurements: Our flagship FAZT I4G interrogator returns measurements in 1pm steps across its wavelength range. Using patented FAZ Technology scan-by-scan calibration, the instrument features ultimate 0.1pm absolute precision, superb repeatability of 50fm max, and absolute accuracy of 1pm (Gas Cell and MZI referenced in closed PM circuit). The FEMTOSENSE GATEWAY effectively manages the massive data that can be generated by one or many FAZT interrogators operating in parallel while deployed in larger scale systems and helps the customer analyze, store, and/or transmit the relevant information.

Reduces third party development time for OEM systems: A programming interface is provided to allow integration of the FEMTOSENSE GATEWAY with third party software.

World-Class Applications Engineering Support: Experienced design, configuration, field installation, and data management/interpretation engineers from Femto Sensing International, FAZ Technology and Fugro are available to provide applications specific customer support from optical sensors selection to sensing arrays configuration and installation, from interrogators selection to configuration and operation, from data management for small dedicated systems to large scale monitoring system architectures.

Applications include Aerospace, Marine, Railways, Roads, Civil & Geo Engineering, Energy, Industrial, and R&D Labs

Femto Sensing International undertakes a rigorous development process before products release. The company is also firmly committed to continuous improvements after release to ensure performance and reliability to the highest standards, hence, specifications are subject to update without notice.

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KEY SOFTWARE FEATURES

Replicate data from multiple interrogators from the FAZT product family over TCP/IP
Retrieve sensor and formula configurations from interrogator
Display current spectra and sensor and measurand values
Saving of sensor peaks and measurands for further analysis
Sensor and interrogator status screens (and logging)
Provides Rest API for synchronization and distribution of sensor configuration
Manages synchronization of interrogators (Master only, Master/Slave, Slave only)
Supports 1kHz, 2kHz, 4kHz and 8kHz system-wide operation scan modes
Merges data from up to eight (8) interrogators (connected to single instance of the SW)
Supports synchronizing an unlimited number of instances of the SW (across many PCs)
Ready to be integrated with third party software. As an example, the FEMTOSENSE GATEWAY Software has been integrated with Fugro’s GeoRisk Portal.
Support for system software developers: A programming interface is provided to allow integration of the FEMTOSENSE GATEWAY with third party software.

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