

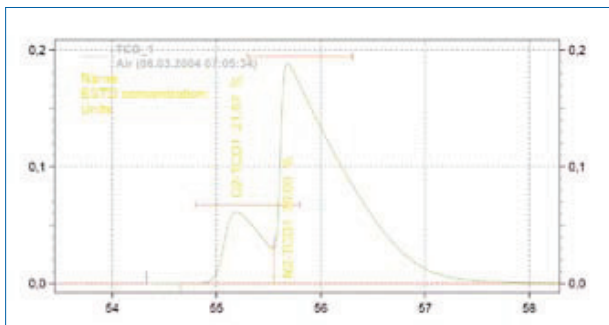


## Our Services

### Industrial Measurement Technology

#### Process Analysis

The objective of many projects by FORTECH Software is the recording, analysis, visualization and storage of measurement data. Projects of this type are typically long term and are often monitored across the whole life cycle from the requirements analysis, through design and development right up to support. Frequently a breakdown of the software into device firmware and PC-supported operating and configuration software is found.



#### Skills

- Actuation of specific customer hardware (Processors based on x86-, SHx- and ARM, DSPs, FPGAs, various micro-controllers)
- Communications (TCP, UDP, Arcnet, Modbus, I2C, proprietary protocols) between device and PC
- Monitoring, analyzing and archiving measurement data in accordance with international and national standards (ISO, DIN, GOST, GPA)

- PC control software for the configuration of the measurement process, visualization, archiving of measurement data
- Operating system support for the device (Windows CE adaptation, development and logging infrastructure, boot loaders, flash-file system etc.)
- Implementing complex firmware update scenarios including the migration of settings

#### Project Examples

- Verifiable identification of the components and calorific value of natural gas on stand-alone gas chromatographs
- Recording operational data in large scale laundries for long term quality assurance
- Data management and generation of reference data for the acoustic quality control of vehicle transmissions
- Component identification with NIR spectrometers
- Operation and monitoring of the distributed control system for the beam operation of a particle accelerator