

## Fluke 289/FVF helps to develop high-voltage sources

### Application Note

Founded in 1997, LIFETECH S.R.O. - based in Brno, Czech Republic - develops, designs and distributes equipment for water and air treatment and purification. It produces a range of treatment systems, including ozone generators for sanitizing air in homes and offices, and UV reactors for disinfecting (for example) swimming pools. The company also services its equipment, as well as equipment made by other manufacturers. Lifetech has about twenty employees overall, with five in the Development Department.

colleagues in a company using the multimeters on a daily basis. Lifetech already uses several Test & Measurement tools from Fluke like the Fluke 192B/S and 199C/S ScopeMeters, a Fluke 8846A bench multimeter and (within the service department) a Fluke 123/S ScopeMeter. So, the company is very familiar with Fluke instruments.

#### Voltage measurements up to 1000 V

Measuring up to 1000 V or 1000 A on both AC and DC ranges, the 289 is ideal for Lifetech's high-voltage work. The true-RMS instrument is designed to solve complex problems. The Fluke 289 can measure parameters like frequency, duty cycle, pulse width and min/max/avg values. In addition, the built-in data logger with TrendCapture helps track down elusive, intermittent problems – the instruments monitor the equipment while the users are themselves off doing other work. Logged data can be overlaid from six meters or six time periods to find cause and effect relationships or for condition monitoring using the FlukeView Forms (FVF) software from Fluke.

In his work, Mr. Zemánek often has to watch for signal trends, and this is greatly simplified by TrendCapture – a feature that is particularly useful in the field. The data can simply be transferred to computer, where it is easy to see the trends and convert them into a report.



Miroslav Zemánek is a developer at Lifetech S.R.O. There, he and his colleagues in the department work on new processes that will help improve air and water quality. The company has recently, for example, developed a system that uses ozone gas (which has long been used for disinfecting water) for air treatment. The department therefore needs to study the effectiveness and efficiency of ozone generators. Similarly, it studies UV lamps and reactors for water purifiers (helping to reduce the amount of chlorine needed in swimming pools, for example).

Mr. Zemánek specializes in developing high-voltage sources and technologies, and is particularly involved with all matters concerning regulations. His work involves testing tasks that range from making output checks of finished products through to testing installations.

Lifetech was initially interested in the Fluke 289/FVF multimeter because of the company's excellent experience with Fluke as a brand. Mr. Zemánek had also heard good reports of the Fluke 189 (the forerunner of the 289) from

