



## Press Release

### Leak testing for gas and water lines

*Karlsruhe, November 12, 2014:*

The ESS3 system (electronic memory writer) of UNION Instruments is used to measure gas and water pressure in supply networks and to collect, save, and document the measurement data. This technology is used for fault analysis, leak tests, and function monitoring in gas and water supply networks and sewers. The battery-operated devices are permitted for use in hazardous areas (Zones 1 and 2) and are designed in protection classes up to IP68.

The DPK3 test kit for pressure tests supplements the system for mobile leak tests according to German DVGW rules W400-2 and G469. The accuracy of the pressure sensors has been increased to 0.05% FS, and they are extremely stable against temperature fluctuations. As a result, a single device can be used for tests in the water supply and in the gas supply. This significantly lowers investment and maintenance costs while increasing flexibility. The fully automatic calibration of the DPK 3 pressure sensors taking into account the influence of temperature guarantees a very accurate test result. Consequently, even tests according to the German DVGW G469 C3 test procedure for gas transport and gas distribution are possible.

#### **About UNION Instruments**

*UNION Instruments GmbH, founded in 1919, is a specialized supplier of measuring instruments in the areas of calorimetry, gas composition and pressure registration. Its user and customer base includes biogas producers, the chemical industry, and energy and water suppliers. The company has its headquarters in Karlsruhe, Germany and a subsidiary in Lübeck, Germany. With 20 international distributors, UNION Instruments operates worldwide (e.g., USA, China, Russia, Brazil, Belgium). The company's core businesses include production and development as well as maintenance, service and support.*

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UNION-Instruments\_PM2014-03\_ESS-R1  
UNION-Instruments\_PM2014-03\_ESS-S4



Figure 1: UNION-Instruments\_PM2014-03\_DPK

The DPK3 test kit for pressure tests of UNION Instruments is used, in particular, for mobile pressure and leak tests of pipelines, sewers, long-distance heat lines, and pressure tanks.



Figure 2: UNION-Instruments\_PM2014-03\_ESS-R1

ESS3 R1 operator control unit of UNION Instruments with a radial sensor connection for integration of a pressure or temperature sensor.



Figure 3: UNION-Instruments\_PM2014-03\_ESS-S4

ESS3 S4 operator control unit of UNION Instruments with four vertical sensor connections for measurement of gas and water pressure in supply networks and for saving the measurement data.