

Press Release

DewCal® reaches the dew point fast and more precisely

Stadthagen in February 2010 --- DewCal® enables the dew points of gasses to be regulated faster and with greater precision when compared with other customary humidity sensors. This enables the innovation to pave the way for new technological processes due to the fact that dew points can now be controlled in changing process chains at last. The German company Falk Steuerungssysteme GmbH in Stadthagen has developed this system, for which it has filed a patent application.

The working principle of DewCal® is based on absolute physical parameters such as the temperature, volume or pressure. They can be easily measured. Compared with this, sensors which are used in this scope of application have to be calibrated to a reference system first. This indirect route obviously results in measuring errors and as a consequence, restricts the accuracy. The fact that the previous long humidity sensor adjustment times due to the hysteresis are now a thing of the past, the consequence is increased productivity. With the assistance of DewCal®, the volume flows of dry and moist gasses are varied – the therefore being mixed. The new dew point is therefore a calculated parameter comprising the volume and the water concentration.

DewCal® is primarily tailored to industrial and laboratory applications which require gas or air flows with an exactly defined moisture content.

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Examples for this are sensor calibrations, welding processes, cleanroom technology, fuel cells or the wide field of metal surface treatments.

Its functional principle also enables the compactly designed system to not only generate water but also calibrated vapour densities or other fluids – namely those that have a comparable vapour pressure curve. Three examples of this are carbon tetrachloride, ethanol and acetone.

Corporate background:

With its approx. 30 highly qualified employees, Falk Steuerungssysteme GmbH manufactures the appropriate automation solutions for individual tasks– from a single machine to fully automated process control and production planning systems. This company which was established in Stadthagen in 1993 develops these efficient solutions in close cooperation with the clients, taking the best possible productivity and availability into account. Commissioning, training and service round off the total package.

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