**New SMARTPAT conductivity sensors**

* Three new sensors SMARTPAT COND 1200, 3200 and 5200 for conductive conductivity measurement in liquids
* 2-wire loop powered analytical sensors with integrated transmitter technology
* Configuration and calibration via PACTware FDT/DTM or HART DD
* Installation in hazardous (zone 0) and hygienic areas

**Text:**

Duisburg, Oct 01, 2015: Extending its portfolio of process analysis sensors and systems, KROHNE introduces three new SMARTPAT sensors for conductive conductivity measurement in liquids: SMARTPAT COND 1200, 3200 and 5200.

Introduced in 2013, SMARTPAT is a series of digital 2-wire loop powered sensors with integrated transmitter technology. Using a VP cable, any SMARTPAT sensor can be connected directly to the process control system via 4…20 mA/HART 7 interface. This offers advantages in both handling and costs of a measuring point. An additional transmitter on site is no longer necessary, SMARTPAT sensors can be configured and calibrated offline via PACTware FDT/DTM, on site with a HART handheld or an optional loop powered operating unit.

Targeted at the water and wastewater industries, the application area for SMARTPAT COND 1200 (measuring range for cell constant c=1: 100 µS/cm…20 mS/cm) ranges from process monitoring/control in water treatment plants (industrial and drinking water), water quality/limit values monitoring, to filter monitoring.

SMARTPAT COND 3200 (measuring range for cell constants c=0.1: 1…1000 µS/cm, c=0.01: 0.05…10 µS/cm) is aimed at quality measurement in condensate, cooling water, boiler feed water in power plants. Also, it can be used for reverse osmosis, monitoring of ion exchanger, deionization or desalination processes, e.g. in semiconductor production.

SMARTPAT COND 5200 (measuring range for cell constant c=1: 10 µS/cm…15 mS/cm) is designed for use e.g. in separation processes (caustic solution / water) or process monitoring in water or wastewater treatment in chemical, petrochemical as well as in water and wastewater industries.

Each SMARTPAT sensor is specifically designed for its area of application: approvals and certificates range from installation in hazardous areas up to zone 0 to hygienic areas. Along with the sensor family, KROHNE offers a large portfolio of accessories, including loop powered indicators, USB interface cable, junction box, operating unit, standard solutions, sensor cables and mounting assemblies.

About KROHNE: KROHNE is a full-service provider for process measuring technology for the measurement of flow, mass flow, level, pressure and temperature as well as analytical tasks. Founded in 1921 and headquartered in Duisburg, Germany, the company employs over 3,500 people all over the world and is present on all continents. KROHNE stands for innovation and maximum product quality and is one of the market leaders in industrial process measuring technology.

**Picture:**

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**Caption:** Three new 2-wire loop powered sensors SMARTPAT COND 1200, 3200 and 5200 for conductive conductivity measurement in liquids

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