

AMI Deltacon DG

On-Line Analyzer for the Measurement of Three Conductivity Values in Water/Steam Cycles:

- 1. Specific (total) Conductivity*
- 2. Cation (acid) Conductivity after a Cation Exchanger*
- 3. Degassed Cation Conductivity after a Sample Reboiler.*

Calculation of Sample pH and Ammonia Concentration based on Differential Conductivity Measurement



Degassed Cation Conductivity

Monitor AMI Deltacon DG
(Data Sheet No. DenA23481XX0)

- *Measurement based on ASTM D4519-94*
- *Sample reboiler unit with heating and cooling system made of stainless steel*
- *Degasser electronic controller for sample reboiler with vapor pressure control (IP66)*
- *Atmospheric pressure measurement for boiling point compensation*
- *Simultaneous measurement and display of conductivities, pH or ammonia concentration, sample temperature and sample flow*
- *Calculation of resin consumption with user alarm*
- *Complete system mounted on stainless steel panel*
- *Optional communication board Profibus DP / Modbus*
- *Factory tested and ready for installation and operation.*



Specific, Cation and Degassed Cation Conductivity



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Analytical System

- Conductivity measurement range:
0.055 to 1000 $\mu\text{S}/\text{cm}$
- Calculation of pH value:
from pH 7.5 to 11.5 (VGB-directive 450L)
- Calculation of ammonia concentration:
from 0.01 to 10 ppm
- High precision:
 $\pm 1\%$ of the measured value
- Sample flow measurement with security shutoff for
sample heater of reboiler if sample flow is too low.

AMI Electronic Unit

- Rugged aluminium housing (IP66)
- Large backlit LC-Display for the reading of
the measured value and status information
- Full-text menu driven user interface
- Two freely scalable current signal outputs
(0/4 – 20 mA), third one as an option
- Optional fieldbus communication board
(Profibus, Modbus, SWAN Desk).

Flow-Cell with Sensors and Integrated Cation Exchanger

- Stainless steel flow cell with integrated needle
valve and flow sensor for two-electrode
conductivity sensors with Slot-Lock system
- Sensors with stainless steel body, titanium
electrode and built-in temperature sensor
for automatic temperature compensation
- Easy to replace integrated cation column.

Made in Switzerland 

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ANALYTICAL INSTRUMENTS