swan
ANALYTICAL INSTRUMENTS

Online Monitoring for

POTABLE WATER

- Disinfectants
- pH
- Redox Potential
- Turbidity
- Organics Monitoring - SAC_{254}
- Ammonium/Nitrate
- Specific Conductivity
- Dissolved Oxygen

Disinfectants

pH
Redox Potential

AMI Codes-II

Photometric measurement and control system for disinfectant concentrations

- Conforming with standard DPD-method according to AWWA 4500-Cl G/ EN ISO 7393-2 for free chlorine
- High accuracy and reproduceability due to automatic zero-value calibration
- Reduced maintenance with cleaning module and high tolerance against fouling

- ***Free Chlorine***
  0-5 ppm
- ***Chlorine Dioxide***
  0-6 ppm
- ***Ozone***
  0-2 ppm

AMI Codes-II CC

Differentiated photometric determination of chlorine according to AWWA 4500-Cl G / EN ISO 7393-2

- Continuous and simultaneous analysis of free, bound and total chlorine
- Freely adjustable measuring intervals for optimized use of reagents
- Fast and easy to use verification with user-friendly solid state standard

- ***Free Chlorine***
  0-5 ppm
- ***Bound Chlorine***
  0-5 ppm
- ***Total Chlorine***
  0-6 ppm

AMI Trides

Amperometric measurement and control system for disinfectant concentrations

- Reagent-free – low operating costs with durable, membrane-free sensor design
- Low maintenance, high zero point stability, improved longevity with automatic sensor cleaning
- Reliable measurements with integrated monitoring of Redox Potential or pH Value (incl. compensation)

- ***Free Chlorine***
  0-5 ppm
- ***Chlorine Dioxide***
  0-3 ppm
- ***Ozone***
  0-1 ppm

AMI pH/Redox

Potentiometric measurement of pH value and/or redox potential (single or dual channel)

- Easy calibration without sensor disassembling
- Minimized maintenance with integrated sensor cleaning
- Integrated temperature measurement and compensation

- ***pH Range***
  1-13 pH
- ***Redox Potential (ORP)***
  -400 bis +1200 mV

Turbidity

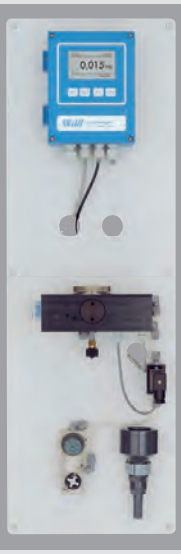
AMI Turbiwell

Contact-free turbidity measurement; approved alternative method to US EPA 180.1 / ISO 7027

- Heated optics prevent measurement errors and fouling from condensation
- No consumables, no wearing parts, no follow-up costs
- Automatic measuring chamber flushing; trouble-free operation without manual intervention
- Fast and easy verification with primary and secondary standard

- ***Turbidity***
  0-200 NTU

AMI Turbitrack



ISO 7027 compliant determination of turbidity under process pressure conditions

- Sample intake up to 10 bar; no pressure reduction necessary
- Minimized maintenance because of wiper-free operation
- Fast and easy to use verification with primary and secondary standard

- ***Turbidity***
  0-100 NTU

Organics

AMI SAC254

Measurement of UV absorption at 254nm (SAC_{254}) for monitoring of organic contamination

- Dynamic measuring method: Insensitive to fouling with wide measuring range
- Integrated grab sample function
- Correlation with DOC, TOC and other related parameters possible
- Integrated turbidity correction at 550 nm per DIN 38404-3

- ***UV Absorption***
  UVA 0-300 m^{-1}
- ***UV Transmission***
  0-100 %
- ***DOC, TOC***
  Concentration ppm

Ammonium Nitrate

AMI ISE Universal

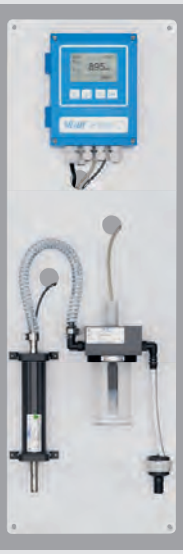
Ion sensitive determination of Ammonium, Nitrate or Fluoride

- Low operating costs due to reagent free operation
- Minimal maintenance due to integrated sensor cleaning
- Flexibility to monitor additional parameters with ion sensitive electrodes

- ***Ammonium***
  0-1000 ppm
- ***Nitrate***
  0-1000 ppm
- ***Fluoride***
  0-1000 ppm

Specific Conductivity

AMI Solicon 4



Measuring of specific conductivity, TDS or salinity

- Insensitive to fouling due to 4-electrodes principle
- Measurement of Salinity as NaCL possible
- Easy calibration without sensor removal

- ***Specific Conductivity***
  0,1 µS/cm-100 mS/cm
- ***Salinity (as NaCl)***
  0-4 %
- ***TDS (Coefficient)***
  0-20 g/l

Dissolved Oxygen

AMI Oxysafe

Amperometric measurement of dissolved oxygen

- Integrated air pressure and temperature compensations for simple calibration using ambient air
- Long-term stable measuring system with robust electrode for low-priced operation
- Easy to handle membrane and electrolyte exchange

- ***Dissolved Oxygen***
  0-20 ppm
- ***Saturation***
  0-200 %

Portable Measurement Kit

Chematest 20/25

Portable kit for measuring disinfectants and pH/ Redox potential values

- Easy handling, reproducible results due to measurement with liquid reagents
- Wide range of additional parameters measurable with one device:
  Iron, Aluminum, oxidants, carbonate hardness and cyanuric acid
- Measuring of ph value and redox potential
  with external sensors

- ***Chlorine***
  0-10 ppm
- ***Chlorine Dioxide***
  0-20 ppm
- ***Ozone***
  0-2 ppm
- ***pH Range***
  0-14 pH
- ***Other parameters available***
  see Datasheet

SWAN
Monitor Concept

SWAN instruments are delivered as fully functional, ready-to-use instruments. This ensures easy system integration as well as user-friendly operation and maintainability.
Highest standards in development and production assure the instrument quality expected by our customers.

System Integration

- Complete panel-mounted systems with fluidics connections preconfigured for quick start up.
- Various communication possibilities with Profibus, Modbus, HART-Protocol, USB-interface and analog output.
- Simple process engineering with regulation functions (P, PI, PID or PD), relay or analog output.

Service and Maintenance

- Uniform menu navigation for simple operation and maintenance - one transmitter for all instruments.
- Clearly arranged setup of instruments, easy accessability of all components for efficient maintenance.
- Self-explanatory maintenance procedures can be easily performed by the operating company.

Quality Assurance

- Every analyzer is wet bench tested and factory calibrated prior to delivery.
- Automatic tracing of reagent charging level and sensor functions by the instrument.
- Integrated flow control for validity check.

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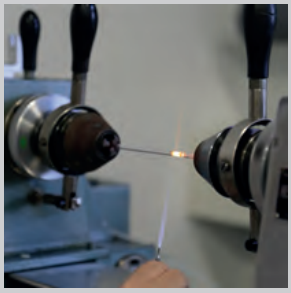



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