Drinking Water Network Monitoring for Smart Cities

Example of an Installation in a Manhole

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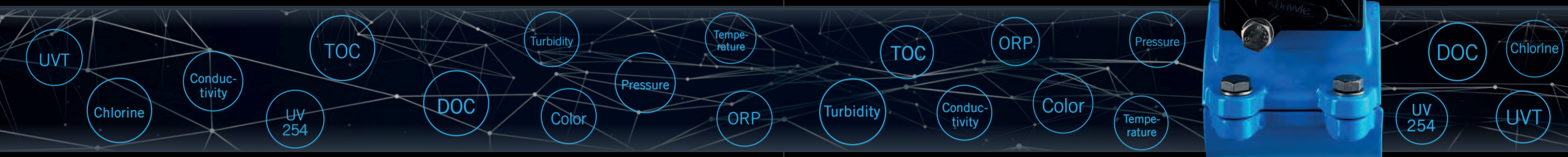
the pipe::scan



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ATTESTATION DE CONFORMITÉ SANITAIRE
ACS

i::scan

Multi-parameter spectrophotometer probe.

Parameters:
FTU/NTU, UV254, UVT, Color, TOC, DOC

Optional autobrush for i::scan

Provides automatic brush cleaning for the i::scan.

Pipe saddle

2“ pipe saddle for hot tap installation. Available for pipes from DN80 to DN600.

Enclosure

Additional security for sensors and operator.

Physical sensors

One chlori::lyser and two additional sensors (condu::lyser, pH::lyser or redo::lyser) can be installed.

Parameters:
Conductivity, Free Chlorine, pH, Redox and Temperature

Base unit

Flow cell for up to 4 sensors with retractable insertion nozzle, filter, sample valve, automatic bleeder valve, pressure sensor and flow sensor (optional).

Nano-pump

For water flow even during periods of stagnation.

UV 254 · TOC · Chlorine · pH · UVT · DOC

Conduc-tivity · Tempera-ture · ORP · Pressure · Turbidity · Color · UV 254

The pipe::scan

Drinking water quality monitoring in the network

The pipe::scan is a sensor system for monitoring drinking water quality in pipes under pressure. It measures up to 10 parameters in one device: TOC, DOC, UV254, Turbidity, Color, Chlorine, pH/Redox, Conductivity, Temperature and Pressure. The water quality data can be sent to any central database via almost any protocol. Multiple pipe::scans are the ideal solution to monitor drinking water at any point in the network.

Only the pipe::scan can:

- Accurate measurement in perfect agreement to standardized lab reference... not just ”trending”
- Organics and Turbidity monitoring
- Totally flow-independent, even works under stagnating conditions
- Hot-maintenance: without interrupting the flow/ pressure, and for each sensor individually
- Full-scale event detection with real-time alarms within the drinking water distribution network
- 6 months service time: Efficient, reliable stand-a-lone operation without maintenance

con::cube

The con::cube is a compact, powerful and versatile terminal for data acquisition and station control. Integrating the newest processor technology, con::cube’s very flexible options for interfacing to sensors, SCADA or any central database system make it perfect for remote monitoring.