Drinking Water Network Monitoring for Smart Cities

Example of an installation in a manhole

light.
speed
ahead.
the new pipe::scan

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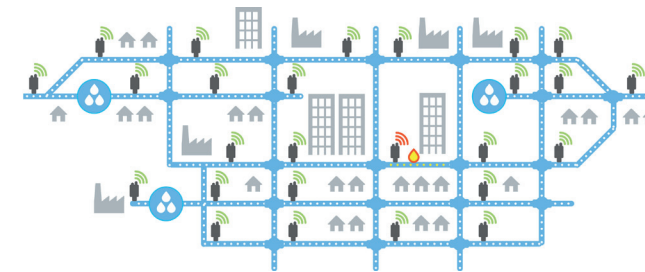Status: Affiliate

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Intelligent. Optical. Online.

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Enclosure

Additional security for sensors and operator.

i::scan

Multi-parameter spectrophotometer probe.

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

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

Optional autobrush for i::scan

Provides automatic brush cleaning for the i::scan.

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).

Pipe saddle

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

Nano-pump

For water flow even during periods of stagnation.

The new 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.
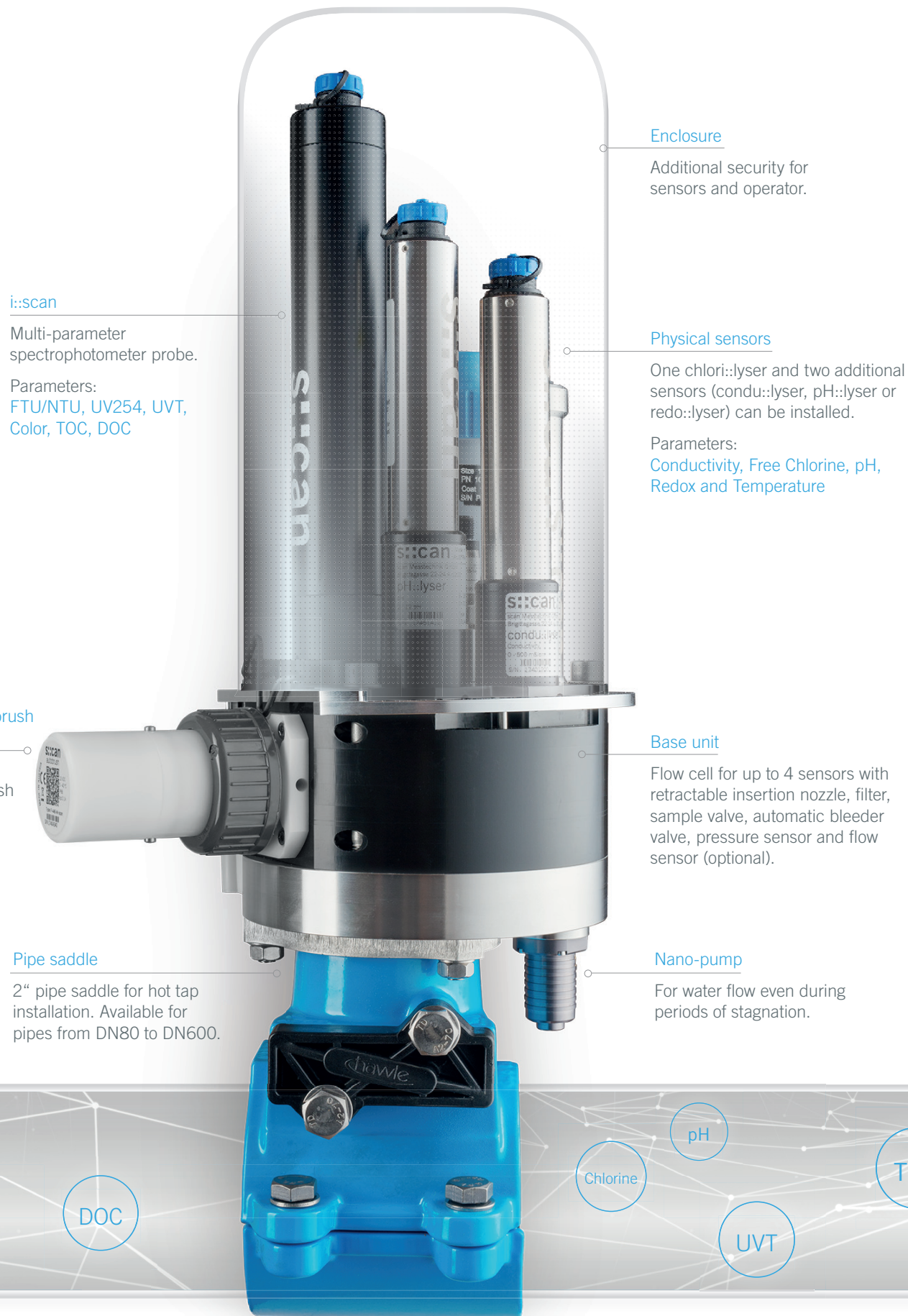
Only the pipe::scan can:

›› 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. Due to its low power consumption, this terminal fits the requirements for operation in decentralized installation sites.