HAWLE SERVICE

ADB e-Marketplace

Hawle Service

WEBINAR

Efficient digitalization in water supply infrastructure

“We want to ensure the sustainability of valuable drinking water supplies.”

Hawle Service

Hawle Service

Overview

- Founded in 2004
- First service “hydrant service”
- 34 employees
  - » Of which 17 service technicians
- Head quarter in Leobersdorf

Smart monitoring of hydrants

S.CAP International

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Why should you make your hydrants smart?

Unauthorized water withdrawal for …

Filling private pools

Filling tank vehicles

Daily work on construction sites

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S.CAP Technology

Cap
Different caps in different countries

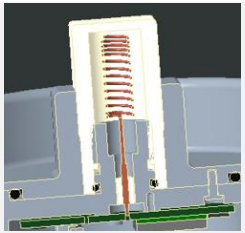
Each cap must be machined accordingly

Motherboard
Incl. communication module + sensor

Startup goes via a magnet

Battery
Only spare part

5 years operating time or at least 200 alarms



Antenna
To ensure connectivity

Connectivity is a key requirement - status can be checked online.

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How does the S.CAP work?

Rotation sensor

Water contact sensor

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H4i
Technology

Rotation counter

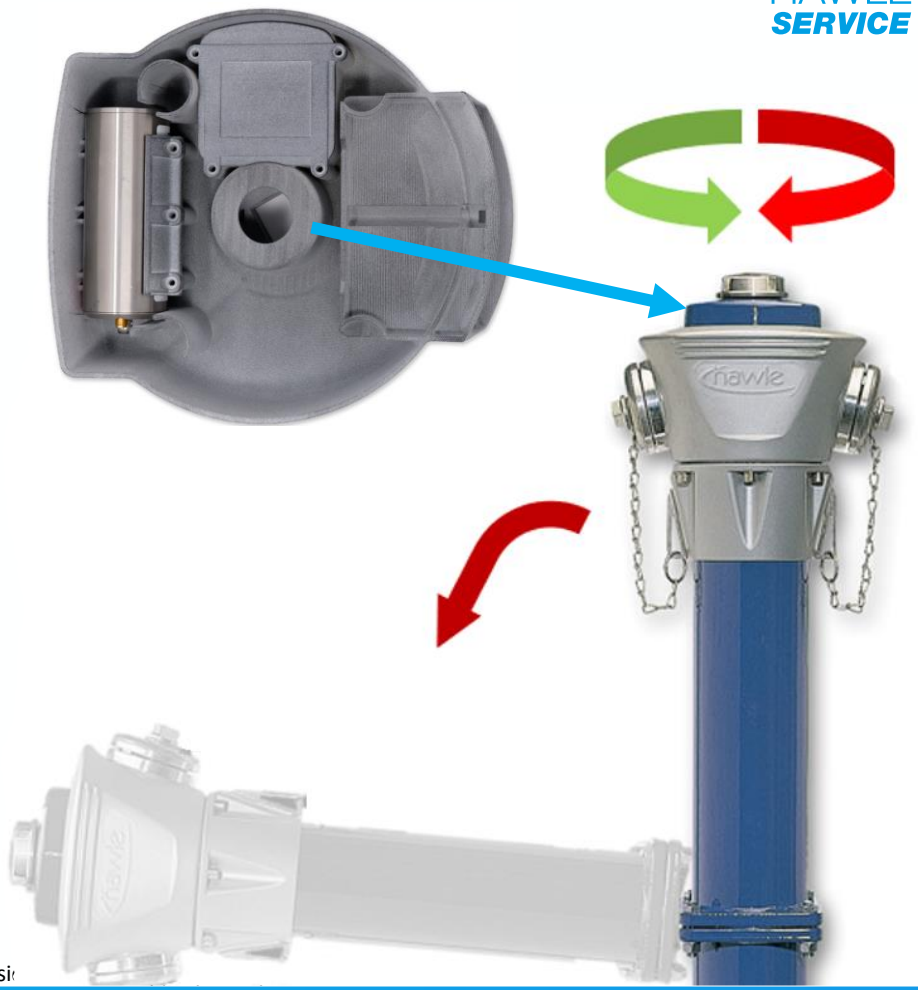
- 15 turns to open position – the counter shows the current position of the wedge
- Ensuring the drainage function – hydrant must be completely closed

Position / acceleration sensor

- Alarm in case of break away

Leak detection sensor (optional)

- Correlating leak noise logger for permanent monitoring of water distribution



Multifunctional online monitoring system

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What is going on in your water supply system?

Pipe leakages up to pipes bursting

Contaminated water

Failure of important fittings in the pipe network

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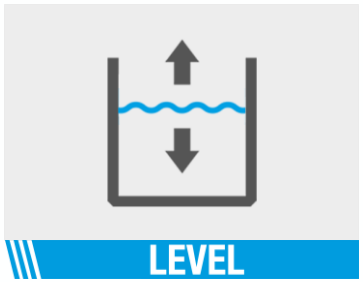
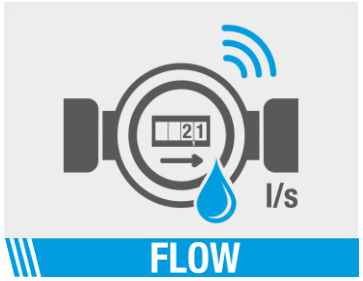
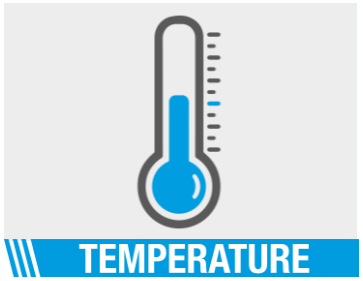
Hawle.LIVE Applications







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Smart measurement of water quality

s::can | Quality from Austria

New light source measurement thanks to multi-parameter spectral sensor

Parameter

- Turbidity NTU / FTU
- Organic
- Color
- Conductance (optional)

made for generations.

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Smart measurement of water quantity

Diehl water meter with reed contact

- min. flow rate → 25 L/min
- max. flow rate → 2,100 L/min

Hydrant withdrawals

- chamber installation
- battery driven – no external power supply
- further sensors can be combined

made for generations.

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Digital air valve
Features

- Energy-independent – harvesting via
  - » Solar panel
  - » e-Power turbine
- Device monitoring – detection of malfunction
- Sensor's maintenance free
- Data documentation/ history for investment plans

Smart gate valve monitoring

Hawle.LIVE Key

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Hawle.Live KEY
Concept

- Based on the knowledge of the S.CAP - IoT into gate/ service/ butterfly/ etc. valves
- **„Let´s make our valves smart!“**
- What does the customer expect?
  - » Position (open/closed)
  - » Location / identification
  - » Status data

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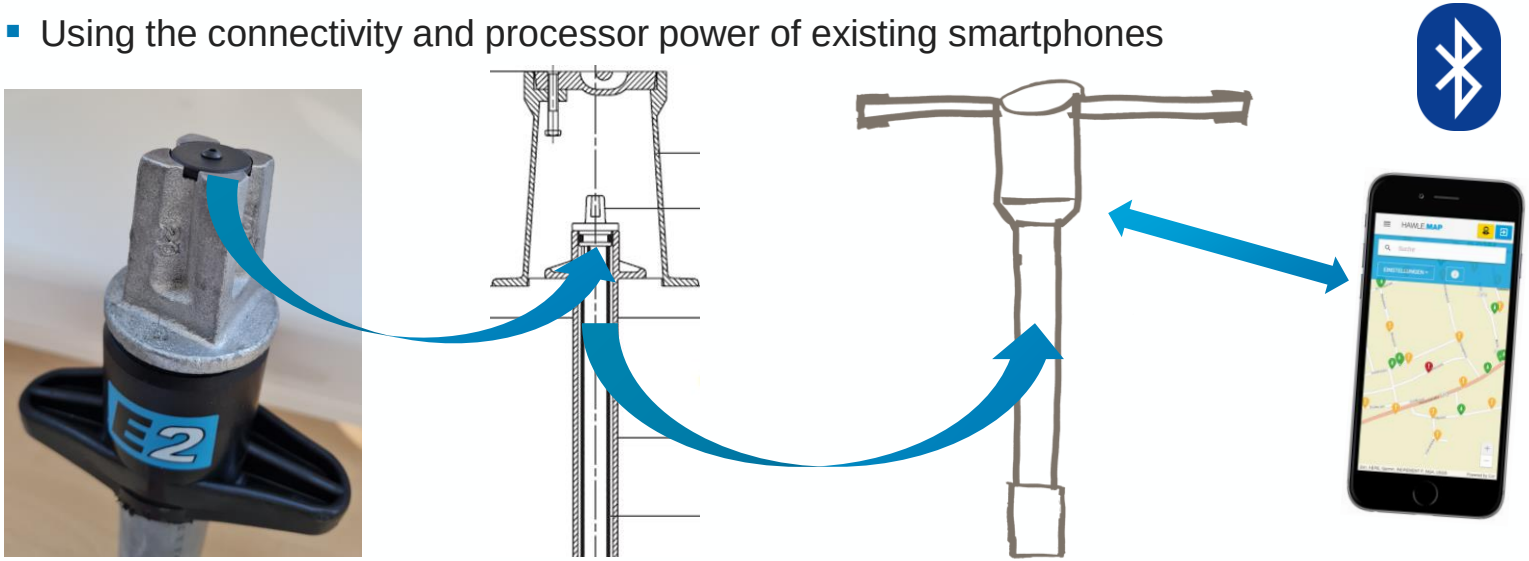
Hawle.Live KEY
Concept

2nd approach: moving the electronics from the surface box into the operation key

- Using the connectivity and processor power of existing smartphones



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NFC Tag

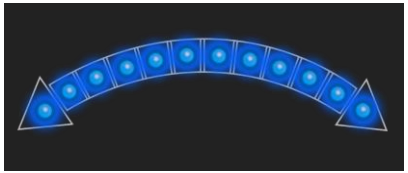
Near Field Communication

- Contactless information transmitter
- Energy-independent

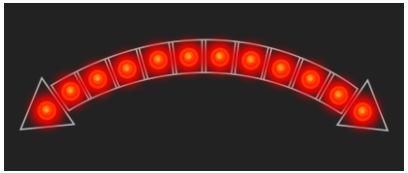
What does the customer expect?

- 100% identification with serial number
- Data storage via http address

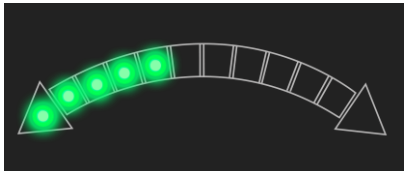
Hawle.Live Key
Intelligent status bar



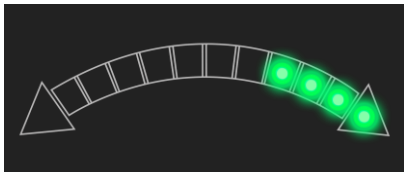
Searching Bluetooth connection



Failure gate valve / direction / torque



Open gate valve with state indicator



Close gate valve with state indicator

Feedback Round