



smartrek

Remote Monitoring using
Smartrek

November 14,
2022

ROCK GAULIN
VP & GM



Technology

- ✓ **Remote monitoring** system using a proprietary **Mesh** technology (Smartrek)
- ✓ Data analysis system included
- ✓ Plug & play system, quick and easy to install
- ✓ Alarm could be sent by email/text
- ✓ Cloud based technology (data secure and accessible anywhere)
- ✓ Affordable, Manufacture by H2O, aggressive pricing on the market
- ✓ Low energy consumption
- ✓ Reliable, design for outside installation



Why use our technology?

Creating a Wireless Sensor Network that enables connectivity of devices on fully private networks, regardless of the environment and network size.



REAL TIME
DIAGNOSTICS



REDUCE
INSTALLATION
COSTS



REDUCE
UNNECESSARY
TRAVEL



ADVANCED ALARM
SYSTEM



PRIVATE SENSOR
NETWORK



INTEGRATED INTO
EXISTING SCADA



BATTERY LIFE UP
TO 7 YEARS



MORE THAN 35
DIFFERENT SENSORS



GAIN SECURE &
PREDICTIVE INSIGHTS



Markets

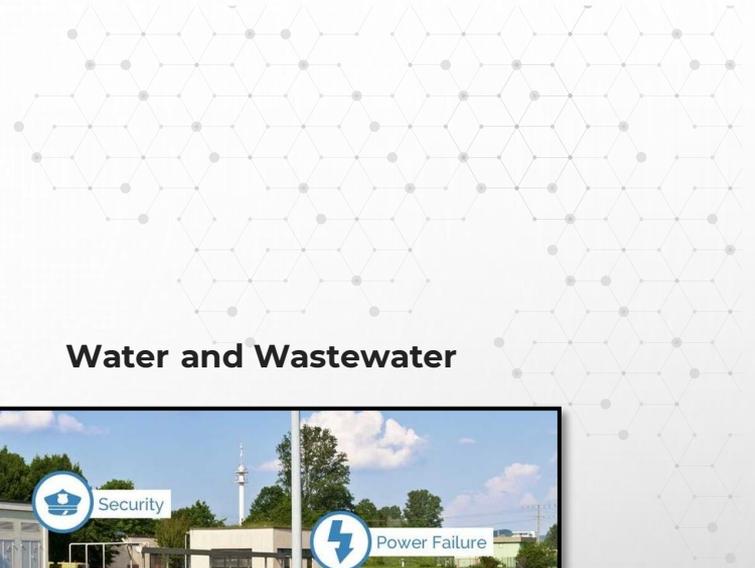
Agriculture



Mining



Mine
Monitoring



Water and Wastewater



Agriculture / Maple sap monitoring

- ✓ + 35 000 sensors installed since 2011
- ✓ Vacuum monitoring at the end of each mainlines
- ✓ Sap level monitoring (tanks, pump station)
- ✓ Pump control (Vacuum & transfer pump)
- ✓ Leak management (live data in the bush)
- ✓ Data analysis with Web App 3.0



Less leak in the system = ++ yield ++

SMARTSAP
MONITORING APP

Differential
Affiche les données des capteurs référencés et le différentiel avec les capteurs qui y sont rattachés.

Station 01	28.50 inHg	Station 02	28.00 inHg	Station 03	27.77 inHg
18	-14.25	16	-28.62	21	-2.56
02	-2.5	18	-1.3	31	-2.02
09	-2.16	11	-1.24	26	-1.92
06	-2.1	19	-1.19	32	-1.62
08	-1.89	17	-1.09	25	-1.59
07	-1.65	14	-0.98	23	-1.5
01	-1.42	13	-0.9	27	-1.49
05	-0.86	12	-0.82	30	-1.46
04	-0.5	15	-0.66	28	-1.45
03	-0.4	20	-0.57	24	-1.43
				29	-1.4
				22	-1.03
				35	-0.24
				34	-0.03



Agriculture

- ✓ Prevent freeze damage and alarms
- ✓ Moisture and soil tension monitoring
- ✓ Water level monitoring (tanks, ponds, reservoirs)
- ✓ Sprinkler control

Efficient water usage



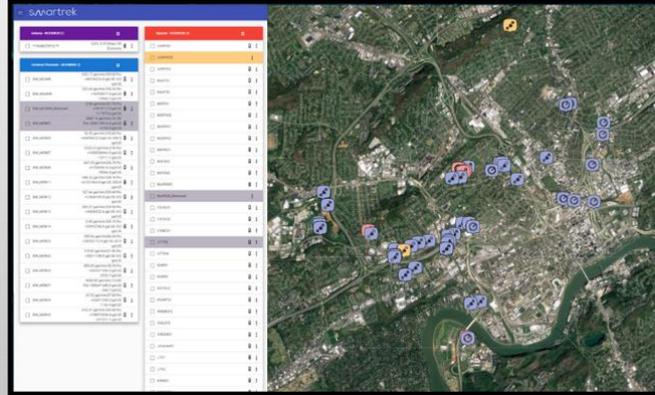
Mining

- ✓ Deep well monitoring
- ✓ Gas level monitoring
- ✓ Pump control
- ✓ Level monitoring for tank and reservoir/pond
- ✓ Alarm management



Water and Wastewater management

- ✔ **Utility management**
- ✔ Reduce site visit (remote information)
- ✔ Live notification and alarm
- ✔ Emergency remote Shut-off valve and system
- ✔ Performance report
- ✔ Independant system (adder to existing system)
- ✔ Maintenance free



Data management and Alarm

My Alarms

Add Alarm

Add Recipient Group

 Alarme B4 René	Alarme section B4	Created: 2021-09-28 04:14	<input type="checkbox"/>
 Alarme A7 Rene	Alarme section A7	Created: 2021-09-28 04:32	<input type="checkbox"/>
 Default	Active on Sun, Mon, Tue, Wed, Thu, Fri, Sat, from 0h to 23h		
 Maggy	Active on Sun, Mon, Tue, Wed, Thu, Fri, Sat, from 0h to 23h		
 Steeve	Active on Sun, Mon, Tue, Wed, Thu, Fri, Sat, from 0h to 23h		
 Adam	Active on Sun, Mon, Tue, Wed, Thu, Fri, Sat, from 0h to 23h		
 Jean	Active on Sun, Mon, Tue, Wed, Thu, Fri, Sat, from 0h to 23h		
 René	Active on Sun, Mon, Tue, Wed, Thu, Fri, Sat, from 0h to 23h		

 Alarme B4 René 09/29/2021
Alarme de gel B4 bay cat

Email sent to rethemorel2@hotmail.com, Called +18193778190, Called +18193778190 on 2021-09-29 01:25

Call	Call
Number: +18193778190	Number: +18193778190
Status: completed	Status: completed
Action:	Action:

 Alarme B4 Maggy 09/29/2021
Alarme Bay Cat

Email sent to magmcd0@hotmail.com, Called +18196975418, SMS sent to +18196975418 on 2021-09-29 01:19

Call	SMS
Number: +18196975418	Number: +18196975418
Status: completed	Status: delivered
Action:	Action: rescheduled 30m

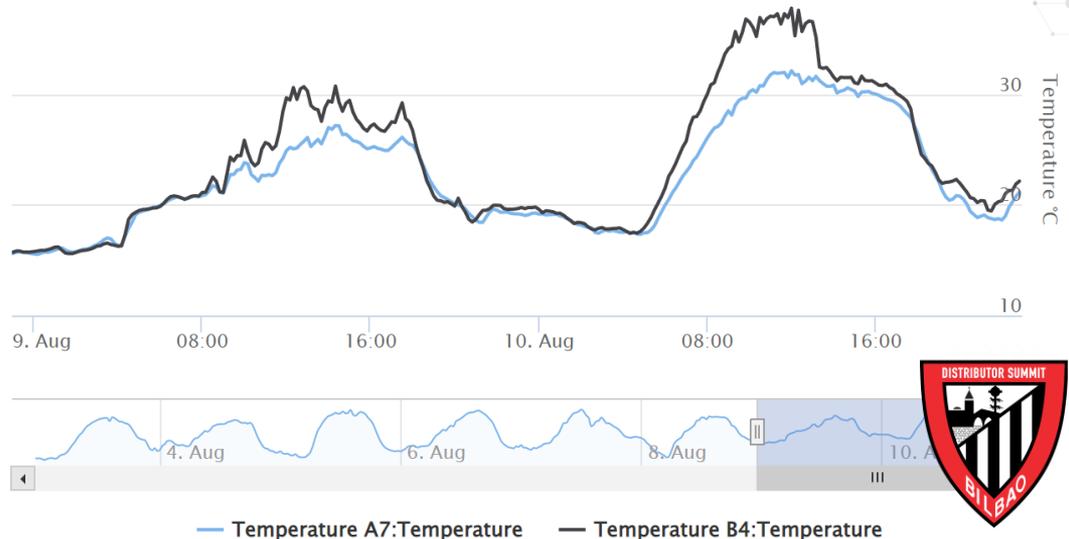
 Alarme B4 René 09/29/2021
Alarme de gel B4 bay cat

Charts for: Temperature A7, Temperature B4

Type: Thermometer RTD

Zoom 1d **2d** 1w All

Aug 8, 2021 → Aug 10, 2021





Handheld

For roaming in the Smartreknetwork



Repeater

Repeats the signal when long distance has to be achieved

Reverse Osmosis

Fully automated Reverse Osmosis machine



Tensiometer

Measurements of soil tension



Ultrasonic level

Liquid or solid level non-contact measurement



Pressure

Measurement of vacuum or positive pressure. All ranges available



pH

Measures pH



Piezometer

To measure underground water level



Relay

Remote control of equipments, measurement of current and state

Flowmeter

Magnetic flowmeter





Ground humidity

Measurement of ground humidity

35+ sensors

Tensiometer

Measurement of soil matrix potential



4-20 mA T

4-20 mA transmitter

Ampmeter

Measurement of current



Industrial ultrasonic level

Measurement of level in harsh environment. With self-cleaning cycle of the sensing head



Refractometer

Process refractometer measuring sugar content

Conductivity

Measures conductivity



Paddlewheel flowmeter

Measurement of flow and volume



Sludge level

Measurement of level

Temperature

Precise RTD measurements of temperature



4-20mA R

4-20 mA receiver



h₂O innovation[®]

Piedmont  

WATER
COMPANY
OF THE YEAR
2020



★★★★★

DISTRIBUTOR SUMMIT

