



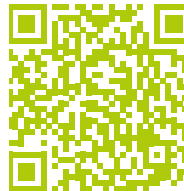
unio^{flow}

Online flow monitoring with notch weirs
in spring shafts and watercourses

DESCRIPTION

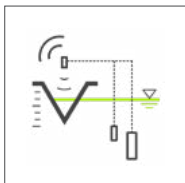
Online flow measurement with standardized stainless steel notch weirs and remote data logger with flexible power supply (mains, battery, solar). Monitor up to 5 separate flow rates in spring collection manholes, watercourses or seepage systems, optionally also with quality parameters.

FURTHER PRODUCT INFORMATION



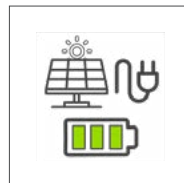
You can find extensive information about the product on our website and in our online shop.

ADVANTAGES AND FEATURES



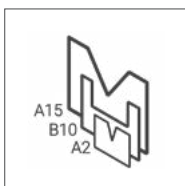
Monitor flow rate and quality online

Measure flow and quality such as conductivity and turbidity at up to 5 notch weirs.



Flexible power supply

Battery, rechargeable battery, solar or mains operation to adapt to measurement interval, signal extent and runtime.



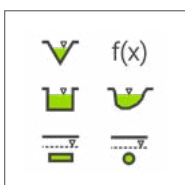
Quick installation and setup

Set up measuring sites without time-consuming referencing with standardized notch weir panels.



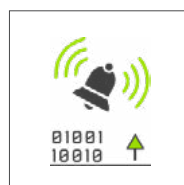
Online measurement data access

View measurement data from the field at any time over our online platform via PC, tablet or smartphone.



Adaptable to different geometries

Versatile formulas for customized notch weirs and flow profiles are integrated directly in the software.



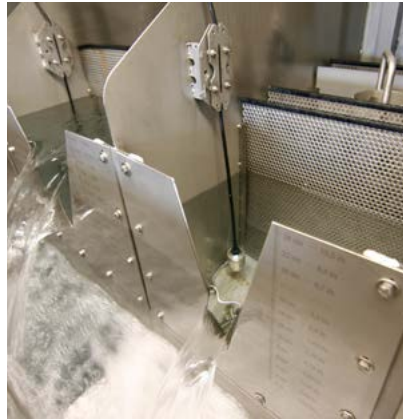
Alerting and data forwarding

Alarm flowrate and water quality violations via SMS and e-mail or forward data online with powerful interfaces.

THE APPLICATION



Flow measuring point in a watercourse with a triangular and rectangular notch weir combination. Battery operation for flow and temperature measurement.



Spring shaft with 4 V-notch weirs for separate flow-/temperature- and combined conductivity measurement.



Seepage system of a dam with redundant flow measurement via ultrasonic and pressure level sensors.

TECHNICAL KEY DATA

	BASIC version	PRO version	EXTREME version
Water level / flow measurement	Up to 5 measuring notch weirs or profiles, water level measurement via ultrasonic sensor	Up to 5 measuring notch weirs or profiles, water level measurement via radar sensors or precision level probes	
Housing and protection class	Plastic housing 130x250x78 mm, IP66/IP68 Optional protective housing made of plastic or stainless steel		
Power supply	Battery 7.2V/94Wh, or dual battery system 12V/84Wh + 3.75V/51Wh, optional solar panel 30W	Battery 7.2V/94Wh, or dual battery system 12V/144Wh + 3.75V/51Wh, solar panel 30W	Dual battery system up to 12V/624Wh + 3.75V/51Wh, solar panel 100W or mains supply
Data transmission	Cellular radio 2G/M1/NB1, integrated SIM chip, Bluetooth Low Energy 5.0		
Interfaces	4x universal input digital/analog, 1x RS232, 1x RS485, 1x PT100/1000. Optional: 1x RS485 galvanically isolated, 1x SDI-12		
Internal sensors	Input voltage, SOC (state of charge), battery life in days, mobile network strength, humidity and temperature in the device		
Sensor supply	2x switchable 3.3V (max. 180mA), 1x switchable 5..24V (max. 1.5W), 1x switchable battery voltage 12V/2.5A (EXTREME version only)		
Interfaces	RGB LED, magnetic switch, 1.5" full color display (optional)		
Temperature measurement	One single sensor Accuracy: $\pm 2.0^{\circ}\text{C}$	Seperate temperature measurement per weir/sensor Accuracy: $\pm 0.1^{\circ}\text{C}$	
Quality sensors available for	Conductivity, oxygen content, pH value, redox potential, ammonium (NH ₄ -N), nitrate-nitrogen (NO ₃ -N), filterable substances (AFS)		additionally AFS, TS, turbidity, color, TOC, DOC, BOD, COD, NO ₃ -N, NO ₃ -3, UV254

*FS = FullScale (eingestellter Messbereich). z.B.: Genauigkeit 0,1% bei FS 10 mWs = 1 cm (gültig bei 20-25°C).

**je nachdem welcher Wert größer ist.