# Snow & Sand

Snow depth, snow-water-equivalent, snow temperature, icing

## Snow Temperature Profile Sensor SCA

Generating a snow temperature profile

The SCA-sensor measures the temperature in the different layers of the snow pack as well as at the bottom. With this, a very exact temperature profile for the specific snow pack is generated.

## Laser Snow Depth Sensor LSH-S

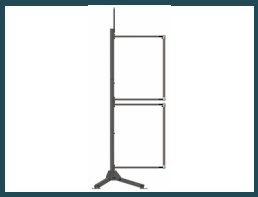
Precise snow depth measurement by means of laser technology.

The LSH-S is based on laser distance measurement technology. It sends out several consecutive impulses and detects the signal reflected at the snow surface. From the distance measurement, the LSH-S directly calculates the snow-height.

## Snow Depth Sensor USH-9

Precise snow depth measurement by means of ultrasonic technology

The USH-9 is an ultrasonic sensor for the precise, continuous and non-contact recording of snow depths. The robust design, a special ultrasonic head as well as an extremely low energy consumption makes the USH-9 a very suitable system for extreme weather conditions and so for alpine and high alpine terrain.



## Snow drift sensor SND

Extremely robust sensor to determine snow drift intensity

The SND sensor is an ultra-robust instrument for measuring solid particle flux intensities and wind speeds. It is a low-power, maintenance-free and totally sealed acoustic instrument with no moving parts.

## Snow Surface Temperature Sensor SIR

Infrared sensor to measure the snow surface temperature

The compact infrared sensor SIR provides for the exact and non-contact measurement of the temperature of the snow surface.

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## Snow Pack Analyser SPA-2

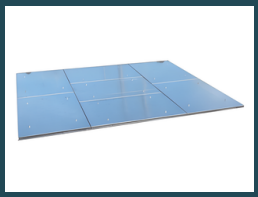
Recording all important parameters of the snow pack

The SPA-2 system records automatically and continuously all important parameters of the snow pack and allows, for example, for predictions about the snow melting progress.

## Snow Water Analyser SWA

Automatic and continuous measurement of SWE and LWC by snow water analyzer

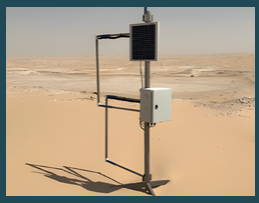
Measuring certain snow parameters can be a challenging task. In addition, snow has a considerable variability in space and time. Several different variables have to be measured to provide reliable information.



## Snow Scales SSG-2

Continuous measurement of the snow water equivalent (SWE)

The new snow scales SSG-2 is a measuring device, which measures the snow water equivalent (SWE) of the snow pack with a high level of precision and reliability. The installation is quick and easy. The fact that there is no anti-freeze needed makes the system environmentally friendly.



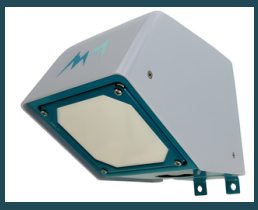
## Sand Drift Sensor

Ultra-robust instrument measuring solid particle fl ux intensities and wind speeds

The SAD sensor is an ultra-robust instrument measuring solid particle fl ux intensities and wind speeds. It is a very low-power, maintenance-free and totally sealed acoustic instrument with no mobile parts.

# Water

Discharge, surface velocity, water level, groundwater monitoring

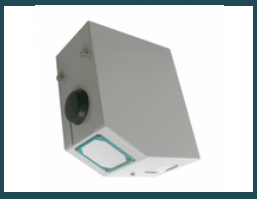


## Non-Contact Discharge Radar RQ-30+

Non-contact discharge measurement by means of radar technology for open rivers

The RQ-30+is a sensor for continuous discharge measurement of rivers, open channels and canals with known cross-section profile. The sensor uses innovative radar technology to measure velocity, water level and discharge.

# Water
Discharge, surface velocity, water level, groundwater monitoring



## Discharge Radar RQ-30 ADMS
Well proven RQ-30 discharge measurement with data logger and data transmission in compact housing

RQ-30 ADMS the perfect solution for reliable high accuracy non-contact discharge measurement.
One devise, simple installation, autonomous operation, your solution for exact discharge measurement using certified high-end SOMMER sensors.

## Handheld Surface Radar HSR-10
HSR-10

Portable and handheld non-contact radar for mobile and spontaneous surface velocity measurements

## cold sensor
Extremely powerful and reliable acoustic chill sensor with volume rating

The powerful and highly reliable HDI sensor is a highly specialized acoustic tool for detecting hailstones and determining hailstone sizes.

## Automatic Weather Station (AWS)
Powerful and robust weather stations for recording diverse weather data

The automatic weather station is designed to measure a variety of weather parameters. It is designed and built for long-term use in harsh weather conditions without requiring any additional infrastructure. The automatic weather station can be equipped with various sensors according to specific customer requirements. Sumer places great importance on high quality and specializes in weather stations for mountainous and high-altitude environments.

# Data & Telemetry
Data logger, communication tools, online-measurement networks, software solutions

## Data Logger MRL-8
Weatherproof data logger with integrated data transmission

Collecting, processing, storing and transmitting of monitoring data – easy, convenient and quick. The MRL-8 is a battery run data, modem supported logger with splash-proof housing, USB data read-out functions and integrated solar charge controller. The very energy efficient operating mode as well as a weatherproof box qualifies the MRL-8 for data applications in remote areas far from any infrastructure.