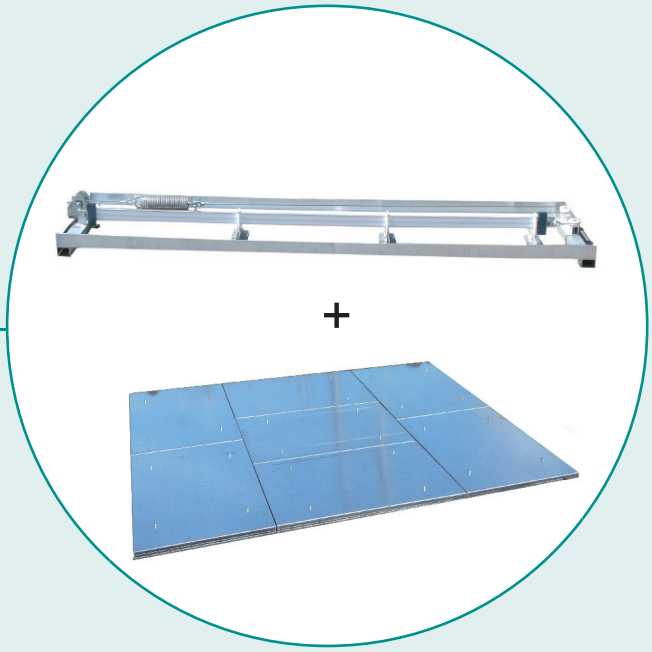
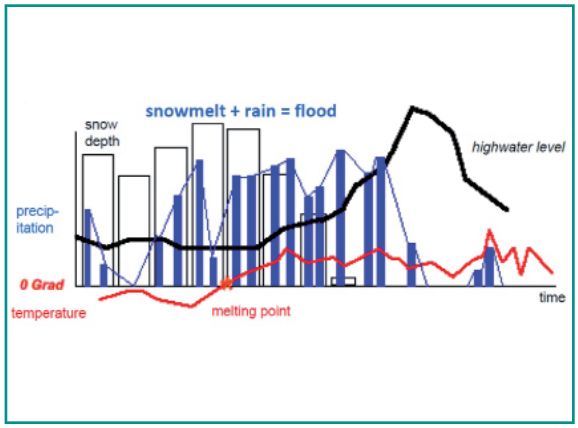
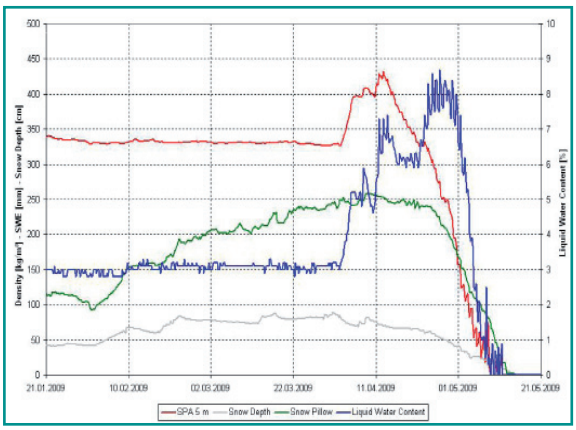
SMA-2

Snowmelt analyzer for flood prediction and water management







Properties and benefits

- ✓ Registration of the snow parameters:
  - Content of liquid water and ice
  - Snow Density
  - Snow water equivalent (SWE)*
- ✓ Prediction of snowmelt of the snow pack
- ✓ Recognition of increase of liquid water content in snow pack at an early stage
- ✓ Realistic representation of measured snow parameteres
- ✓ Simple and easy installation and set up
- ✓ No calibration necessary
- ✓ Low power consumption

** only in combination with snow scale (SSG or SSG-2)*

Technical Data

SMA-2- System to predict the snowmelt	
Resolution	0,1 %
Dimensions (mm)	aluminium frame: 3.000 x 600 switch cabinet: 70 x 100 x 55
Protection	IP 65
Power supply	10,5 ... 15 VDC
Power consumption	operating mode: max. 50 mA (for 5 sec.) / stand-by: < 2 mA
Operating temperature	-35° ... 80° C
Output	SDI-12, RS-485, RS-485 MODBUS
Parameters measured	• Liquid water content • Ice content • Air content

SSG-2 - System to measure snow water equivalent	
Measurement range	0 ... 200 mm SWE (only SSG) 0 ... 500 mm SWE (only SSG) 0 ... 1.000 mm SWE (SSG and SSG-2) 0 ... 2.000 mm SWE (SSG and SSG-2) 0 ... 3.000 mm SWE (SSG and SSG-2)
Resolution	0.1 kg/m² ≙ 0.1 mm SWE *
Accuracy	0.3 % (FS) *
Measuring surface	6.72 m²
Total weight SSG	110 kg
Dimensions SSG (mm)	L = 2800 W = 2400 H = 70
Protection	IP 68
Power supply	10 ... 30 VDC
Power consumption	max. 70 mA
Operating temperature	-40 ... 80°C
Max. inclination	5°
Output	SSG 200 4 - 20 mA ≙ 0 ... 200 mm SWE SSG 500 4 - 20 mA ≙ 0 ... 500 mm SWE SSG and SSG-2 1.000 4 - 20 mA ≙ 0 ... 1.000 mm SWE SSG and SSG-2 2.000 4 - 20 mA ≙ 0 ... 2.000 mm SWE SSG and SSG-2 3.000 4 - 20 mA ≙ 0 ... 3.000 mm SWE
Others	Connecting box with lightning protection

** Declaration of weight and accuracy referring to standardised weights.*