ULTRASONIC SNOW GAUGE ULM20/N

The snow gauge is a special version of the hydrometer designed to measure the level fluctuations of a snow blanket.

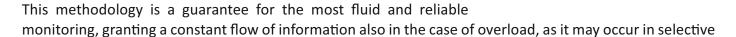The measurement, combined with values of temperature of deposited snow layers, is essential for the avalanche risk prediction.

TECNOLOGY AND FUNCTIONING

The CAE ULM20/N snow gauge uses the same ultrasonic echo-metric system described for the hydrometer.

The time the impulse spends to travel the distance between the sensors and the snow blanket, returns the increasing or decreasing measurement of the snow level. The signal is software filtered to eliminate fluctuation depending on snow blanket or air temperature rippling.

The snow gauge is an independent module equipped with its own microprocessor: this system of distributed intelligence allows a first processing of data at module level, for further transmission to the SPM20 station.

This methodology is a guarantee for the most fluid and reliable monitoring, granting a constant flow of information also in the case of overload, as it may occur in selective

innovation for a safer world.

measures repeated during an emergency phase.

TECHNICAL SPECIFICATIONS

- Measurement range: 0 ÷ 20 m

- Flash-Eprom memory capacity: 128 KB (equal to one year's data)

- Accuracy: 0.2% of the measure (typically within ±1cm)

- Resolution: 1 cm

- Temperature compensation by station SPM20 internal thermometer

- Size: 185 (Ø) x 290 mm

- Weight: 2,6 kg