

Development of Portable Type Avalanche Detector

Ryota SATO Daisuke TAKAHASHI Shigehiro IIKURA

We developed a device of detecting the avalanche by converting a load of avalanche that the pressure receiving portion of the device receives to electrical signal. This detecting device is attached temporary to the avalanche protection structures. As a result of processing the voltage of the electrical signal output from the device, the maximum voltages have a correlation with avalanche loads and the average voltages are correlated with a mass of flowing down avalanche. The developed avalanche detecting device uses two indicators of the maximum voltage and average voltage. The results of the test of the developed device by using the artificial avalanche, it was found out that the device successfully detected the small avalanche, and the detected information can be transmitted to the telephone within four minutes using a telephone cellular.