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Practical use of the K-NET95 accelerograph by connecting to data logger adapted for the real-time observation

Takashi Akazawa^{1*}, Masayuki Araki², Takamori Ito³

¹G.R.I., ²Central Corporation, ³ERI, Univ. of Tokyo

In 2009, we were involved in the development of a low cost data logger "KS-001" based on the data logger "AK-001" having four input channels. The data logger enables transmission of the real-time data with fastest speed 10 samples per 100msec, and recording of about 8.5 months long-time continuous data by using 32GB of the SDHC card. The data logger has GPS receiver and batteries that ensures both high accuracy of time counts and long-time operation. In 2010, we were involved in the development of data logger "KS-002D" with eight input channels. This data logger is based on the data logger "AK-002" with four input channels developed as a successor of AK-001. New data logger, for example, enables us to record all velocity signals, both of high and low gain channels, outputted from the existing strong motion seismograph employed by The Committee of Earthquake Observation and Research in the Kansai Area (CEORKA), which is arraying stations throughout the Kansai district. This feature ensures high accuracy of records in a broadband.

We tried to connect accelerometer "V403BT", built into the K-NET95 strong-motion seismograph, to the AK-002. Target of this trial is the K-NET95 strong-motion seismographs with the recording part failed. By this modification, the effective re-utilization of the failed K-NET95 strong-motion seismograph is expected, and transmission of real-time data and recording of long-time continuous data become possible at a comparatively low cost.

Keywords: Strong-motion Seismograph, Data Logger, Real Time