

Metadata Details

Title

An Automatic Recording Weather Station at Dakshin Gangotri

Science Keywords

Category	Atmosphere
Topic	Atmospheric Temperature
Expedition Year	1981-1982
ISO Topic	Atmosphere

Summary

Abstract

The Automatic Weather Station erected by the First Indian Antarctic Expedition. A simplified block diagram of the system electronics presents an overview of the sensors and associated electronic hardware. A detailed flow-chart of the acquisition and storage software is also presented together with details of the processor module, analog board, clock and power supply circuits and tape recorder interface. Finally, a typical print-out obtained at the site of erection, Dakshin Gangotri, is reproduced.

Purpose

The station was programmed to interrogate meteorological sensors every 213 sees (2 hours 16 minutes 32 seconds) and record their values. The values were stored on an incremental cassette recorder with a total capacity of 1.6 Mega bits equivalent to a 5 month capacity at the set interrogation interval.

Data Center