Monitoring & Control Systems

Project: Weather Monitoring
Client: Direct TV
Location: Aurora, Colorado
Year: 1995

Application Notes:

Direct TV broadcasts television signals via satellite links. They were concerned about the effects that different weather conditions were having on their transmission signals. In order to better understand these affects and to take steps to ensure that their broadcast signals would be reliable they set up weather stations at two of their ground base sites. If weather becomes too severe at one site the transmissions from that site can be rerouted to another location so that the site that is experiencing the harsh weather can be shut down to protect it from electrical damage and to ensure quality transmission to Direct TV subscribers.

Installation and System Design:

The sites consisted of a (TT10) Triangular Instrument Tower with a fiberglass enclosure mounted to it. Inside the enclosure was housed a data logger and 7 amp hour 12 volt DC power supply. The data logger measures air temperature and relative humidity (RH45), wind speed and direction (WS5103), barometric pressure (BP105), and precipitation (ORG-815).

The data logger is interfaced directly via a long RS-232 cable to a computer inside the office building. The system is powered and the battery recharged with AC power that is connected to a large uninterruptible power supply.

For Information on this project or these products please contact:

Intermountain Environmental, Inc.
601 W. 1700 S. Logan, UT 84321
Phone # 435-755-0774
www.inmtn.com