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Accurate GPS Time-Linked Data Acquisition System (ATLAS) User's Manual

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Abstract

The Accurate Time-Linked data Acquisition System (ATLAS) is a small, lightweight, time-synchronized, robust data acquisition system that is capable of acquiring simultaneous long-term time-series data from both a wind turbine rotor and ground-based instrumentation. This document is a user's manual for the ATLAS hardware and software. It describes the hardware and software components of ATLAS, explains how to install and execute the software, presents a detailed set of instructions on assembling an ATLAS for a particular application, and includes an extensive list of troubleshooting procedures.