A **datalogger** (also known as data acquisition system or DAS) is a piece of electronic equipment which converts an input into a digital time series representation. Immense care should be taken when setting up and programming a datalogger. It is highly recommended that only experienced users program their own dataloggers and all others should consult a PASSCAL staff member for assistance.

While specific procedures and programming details will vary between the various types of dataloggers, there are several things that hold true when working with any datalogger.

The datalogger should be:

- Installed in a secure location
- Protected from moisture
- Supplied with reliable and sufficient power
- Programmed with the correct recording parameters
- Connected properly to the sensor
- Receiving accurate timing (from GPS)
- Recording data onsite to non-volatile memory

**1-Channel Dataloggers**
- RT125A (texan)

**3-Channel Dataloggers**
- Q330
- RT130

**Multi-Channel Dataloggers**
- Geode (24 Channel)
- Stratavisor (64 Channel)

**All-In-One**
- Fairfield ZLand Nodal 3-Channel

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**Related categories:** 1-Channel, 3-Channel, Data Loggers, Datalogger, Multi Channel

**Source URL:** https://www.passcal.nmt.edu/content/instrumentation/dataloggers