

Datalogger Specifications

Dataloggers (DCP) are specialized field computing devices that allow for sensors and telemetry devices to be connected to them, allowing for remote data collection and retrieval by the user. DCP's are able to create data collection intervals, collect raw data from the sensors, and perform calculations to the raw data, store the data, and transmit the data via GOES, Cellular, LOS, Ethernet, and Iridium communications, based on the user set specifications.

- Must have support for SD or USB memory.
- Must have built-in 32MB internal flash memory and non-volatile memory: 65MB (1 to 3 million readings).
- Datalogger must have 32-bit processor.
- Datalogger must be able to handle simultaneous communications of 4 or 8 com ports.
- Must have analog and digital I/O modules that plug into I²C port for sensors connect to the system.
- Must have RS232, RS485, and SDI-12 for sensors connect to the system.
- Must have 4 communications serial ports for satellite transmitters, modems, radios and other serial communication devices.
- Must be able to retrieve data using any communication interface.
- Must have Graphical User Interface (GUI) based setup.
- Must have wide operating temperature (-40 to +60°C).
- Datalogger must have built-in Ethernet with 802.3 10BaseT.
- Datalogger must have large touch screen type keypad where user can view data, calibrate, and adjust as needed.
- Must have built-in 10 channel A/D, 8 channel DIO.
- Must have programmable measurement interval of 0.1 seconds to 24 hours.
- Must have unlimited number of measurements supported.
- Units must come with 2 year warranty.