Paperless Videographic Recorders

DX100/DX200

Functions

Memory Function

DAQSTATION provides a variety of recording options that go far beyond the capabilities of conventional recorders. These features let you efficiently record just the data you need, saved to your choice of removable PC storage media. Optional CompactFlash memory cards or Zip disks allow data recording over extended periods of time in automated recording systems.

DAQSTATION Recording System Measured Data

Recording Mode

The DX Series saves measured data to internal protected memory, and then copies the saved data file(s) to the removable storage media in AUTO or MANUAL mode. The internal memory consists of nonvolatile flash memory that does not require a battery backup. This means you won't lose your data in the event of a power failure.

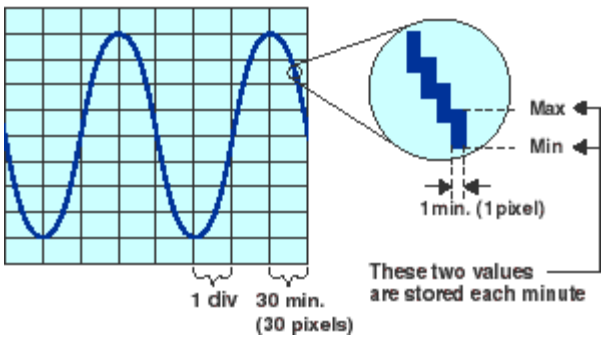
In MANUAL mode, the data held in internal memory are stored on removable storage media when you insert the media in the drive. This mode is useful in cases where you want to store a relatively small amount of data on a floppy disk for quick checking. In AUTO mode, data is stored at preset intervals on the removable storage media inserted in the media drive. This recording mode is ideal for saving measurements over extended periods of time in automated recording systems.

Data files

The DX Series lets you store measurement data either as Display data files or Event files. These two file types serve different purposes, which provide greater flexibility in recording your data.

Display data files -for recording long-term trends

Display data files contain waveform display data. Each time the waveform screen display is updated, the minimum and maximum channel values calculated since the last update are written to the display file (See below figure)



Below table shows the waveform display updating period (time per time-axis div), the data saving interval and the data saving period for a DX106 without calculation channel

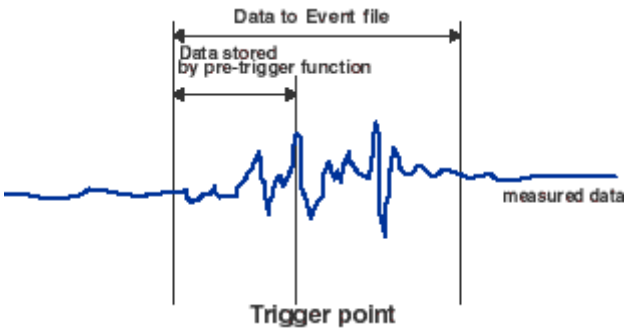
Display updating	1 min/div	5 min/div	20 min/div	30 min/div	60 min/div	240 min/div
Saving interval	2 sec	10 sec	40 sec	60 sec	120 sec	480 sec
Sampling time	approx. 27 hours	approx. 5 days	approx. 23 days	approx. 34 days	approx. 69 days	approx. 277 days

Event files - for detailed data analysis

Event files contain the instantaneous channel values saved at a specified storage interval. These two file types can be used either independently or in combination:

1. Display data file only
2. Event data file only
3. Display data file combined with event data file

Trigger functions



Event files, combined with trigger functions, provide a powerful tool for detecting and analyzing abnormal data. Pretrigger settings can also be made, so data preceding and following a trigger can be analyzed.

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