

Application Note Using the DT80 'Archive' function for troubleshooting infrequent alarms

Customer Requirements A wood products manufacturer in New Zealand was occasionally experiencing "under frequency" alarms at an electrical substation but could not find the cause. The alarms were disrupting production and costly.

Maintenance staff believed they could find the cause if power levels could be logged, however the infrequent nature of the faults meant they would have to wade through enormous amounts of data to find the small amount that was relevant. Ideally, the customer wanted the power levels (in kW) 10 minutes before and 10 minutes after the fault.

Equipment

dataTaker DT80
USB Memory Stick

Sensors

Power Transmitters



Datataker Solution

The client installed a dataTaker DT80 and utilised the "archive" function. The DT80 was set up to permanently store 20 minutes data in a rolling buffer (the oldest data is dropped off).

In the event of an alarm, the logger waits 10 minutes and then archives the 20 minutes of data in the buffer. By waiting 10 minutes, the buffer now contains 10 minutes before the alarm and 10 minutes after the alarm. The data is then stored in memory for later retrieval and analysis.

Only the data relating to each alarm is stored and all superfluous data is discarded.

Data is retrieved over an Ethernet link by accessing the Internet web browser. Maintenance staff can also retrieve data locally by way of a USB memory stick.

Other Applications

Event recording in a wide range of industries

If you need more detail on this application please contact joyce.reid@datataker.com.au

Datataker Pty Ltd - 7 Seismic Court Rowville Victoria 3178 Australia
Tel: 03 9764 8600 +61 3 9764 8600 Fax: 03 9764 8997 +61 3 9764 8997
E-mail: sales@datataker.com.au Web: www.datataker.com