

Application Note – Monitoring weld strength to improve quality

Customer Requirements

A specialist metalworking company, experienced in all types of welding, wanted to establish the reason why some welds occasionally failed. This knowledge would enable the client to take measures to help prevent future failures and take steps to increase their quality and service to customers.



Equipment

DT605

DeLogger™ 4

Sensors

Shunt Resistor, Pressure Transducer, Thermocouples

Datataker Solution

By using the *dataTaker DT605* data logging system to monitor temperature, weld pressure, weld current and voltage to provide a complete profile of each weld.

The *DT605* incorporates a key panel and an LCD display for channel data alarms, battery status and data capacity. Variances from pre-set levels are pinpointed and alarmed to enable operators to take preventative action before a weld problem occurred.

Weld profiles are stored for retrieval or printed out, allowing the client to analyze performance and maintain quality.

The *DT605* can be tailored to meet a wide variety of needs. The internal data storage gives approximately 165,000 data points of recording. SRAM PC card memory can be upgraded to 4MB for greater flexibility and speed of operation and Flash memory firmware can be updated direct form the PC.

The *DT605* has up to 30 analogue channels, seven digital and counter channels and expansion ports for up to two expansion modules each with 30 analogue channels.

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

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