

Case Details

Strainstall Malaysia a specialist in structural monitoring solutions designed and installed a long term monitoring system to measure the imposed stresses on the reinforcing belly band of a nickel blast furnace in New Caledonia.

Key Requirements

- Strain Gauge Support



dataTaker DT85

- Dual Channel Isolation Technology
- Up to 48 Analog ($\pm 30V$) sensor inputs
- Expandable to 960 analog inputs
- 12 flexible digital terminals
- 2 Serial 'Smart Sensor' ports
- SDI-12 (multiple networks)
- Modbus for SCADA connection
- Web & FTP client / server
- USB memory for easy data and program transfer



dataTaker Solution

Equipment

dataTaker DT85 data logger

Sensors

Quarter Bridge Strain Guages

Implementation Notes

The system comprises of 1x DT85 with 16 quarter bridge foil backed strain gauges. The strain gauges are completed to half bridge at the data logger.

Measurements are taken every 5 minutes and output to the client's Siemens PLC via the Modbus output function of the dataTaker. Automated alarms are incorporated into the system.

 **Strainstall**