

Portable Data Acquisition

system measures anywhere, anytime

test & measurement

custom electronics

engineering software

data management



defence & aerospace

consumer goods

environment

mining

ICT

energy

agriculture

biotechnology

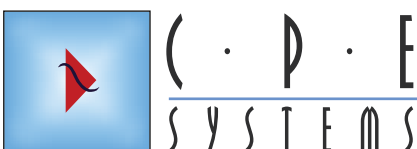
transport & automotive

Portability and Flexibility

"Measure what is measurable, and make measurable what is not so" Galileo Galilei

Measurement is, and always has been, a key component in scientific and engineering developments industry wide. From avionics design to environmental monitoring, it is well known that in order to be able to fix a problem or improve on an existing design, you first need to be able to measure it.

CPE Systems has developed a portable data acquisition system (PDAS) for use in a variety of industries and applications. PDAS combines state-of-the-art COTS equipment with custom software that defines the measurement and analysis functionality required by the client. It reduces development time and cost for the client while allowing for a great degree of flexibility in its end application.



Key Features

The primary requirement for the PDAS is that it has to be ruggedised and flexible enough to cater for various hardware and external signal configurations. The system is particularly useful in the mining industry where conditions are extreme and the need for data acquisition to be portable is critical. CPE developed PDASs for Bluescope and Onesteel which are two companies based in the mining sector that have benefited from this technology by improved process and production methodologies.

- Touch panel tablet PC
- Customisable I/O including:
 - Voltage, current, temperature
 - Bridge sensors
 - Accelerometers
 - Digital
 - Counter/Timer
 - Battery pack
 - Cooling fans and filters
 - Custom connectivity
- Customised software application

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