

VDAS

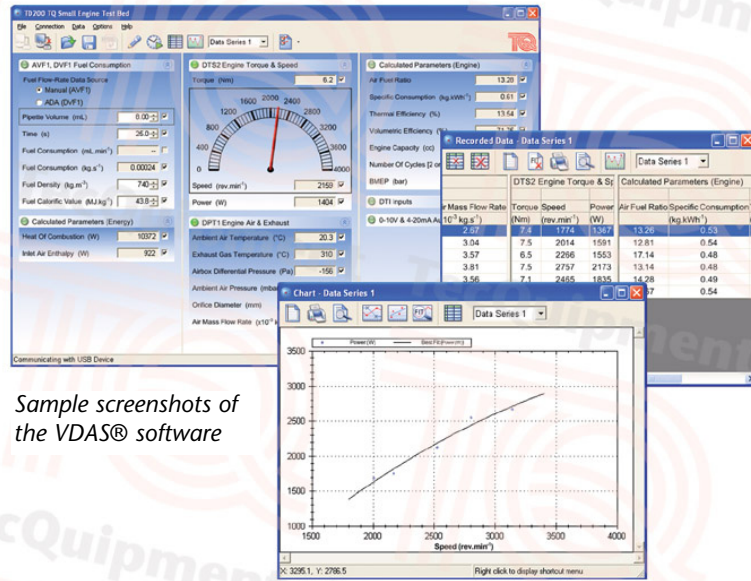
Versatile Data Acquisition System

Enables high-capacity, accurate, efficient and user-friendly digital automatic data acquisition for a wide range of TecEquipment products

Works with **VDAS®**



Versatile Data Acquisition System Frame-mounting Interface (VDAS-F)



Versatile Data Acquisition System Bench-top Interface (VDAS-B)

- Modern, cost-effective digital automatic data acquisition hardware, software and accessories to enhance teaching and laboratory sessions
- Highly versatile system for use with equipment from many TecEquipment product ranges
- Enables real-time data capture, monitoring and display of all relevant parameters on a computer (PC)
- Highly accurate and noise-resistant
- Software is intuitive and easy to use, with clear and convenient data display options
- Fast and convenient automatic calculation, recording, charting and export of relevant data and parameters makes efficient use of students' and lecturers' time
- Compact interface units available in both frame-mounting and bench-top options
- User-friendly software is similar for all VDAS® compatible products – students do not have to learn to use new software when changing experiments

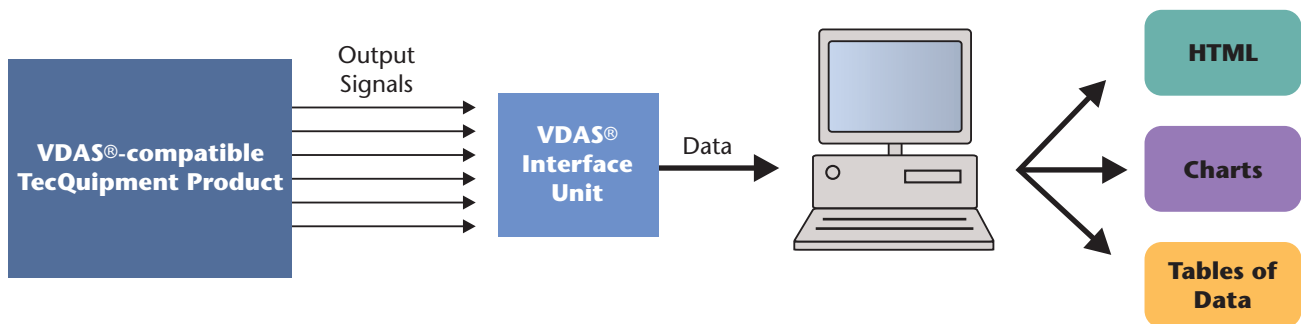
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- An ISO 9001 certified company
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VDAS

Versatile Data Acquisition System

Description



TecEquipment's Versatile Data Acquisition System (VDAS®) is a modern, cost-effective and accurate method of enhancing laboratory teaching. For use with a comprehensive range of TecEquipment products, it enables real-time data capture, monitoring and display of a large number and wide variety of experiment parameters. In addition, because it is digital, it is far more resistant to electrical noise than analogue systems.

Equally suited for individual student use or for lecturers demonstrating experiments to a whole class, VDAS® provides fast and convenient automatic calculation, recording, charting and export of data. This makes efficient, productive and effective use of students' and lecturers' time. The system, specially designed for use with teaching equipment, has a variety of extremely useful functions. These include continuous data recording, sampling at discrete intervals, obtaining a set number of samples, and running for a pre-defined time.

The system consists of software and a choice of either a frame-mounting (VDAS-F) or a bench-top (VDAS-B) interface unit. The functionality of both types of interface unit is identical: the two presentation formats are available to provide choice and convenience to the user. For example, some TecEquipment VDAS® compliant products have an integral instrumentation frame so are more suited to the frame-mounting interface unit.

Digital inputs on each interface connect directly to sensors and instrumentation on VDAS® compliant TecEquipment equipment. These inputs are non-specific, which makes setting up experiments easy and reduces connection errors. The interface units also have inputs for additional transducers and industrial-standard sensors (for example: digital displacement measuring devices, pressure sensors, flow meters and so on).

The output from the interface unit connects to a computer (PC available separately) running the VDAS® software. One interface unit can service many pieces of VDAS®-compliant equipment in a laboratory.

The software is intuitive and easy to use, with clear and convenient data display options. All TecEquipment VDAS®-compliant products use similar user-friendly software. This saves time as students do not have to learn to use new software when changing experiments.

The software has a comprehensive range of functions, including:

- Recording data automatically or with some manual input
- Display of real-time data, either in digital form or as an analogue meter
- Logging data for printing and later analysis
- Exporting data for use by other software
- Performing real-time calculations to generate user-defined data
- Creating and printing charts and data tables

In addition, the high flexibility of the software enables students or lecturers to create, save and re-use their own custom layouts if required.

Standard Features

- Supplied with comprehensive user guide
- Two-year warranty
- Manufactured in accordance with the latest European Union directives

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Essential Ancillaries

- One or more TecEquipment VDAS® compatible teaching products
- Suitable computer

Essential Services

Electrical supply (for VDAS Hardware):

- VDAS-B 100 VAC to 240 VAC, 50 Hz to 60 Hz
- VDAS-F 85 VAC to 264 VAC, 50 Hz to 60 Hz

Recommended computer hardware:

- Intel® Pentium® 4 or equivalent processor operating at 2 GHz
- 512 MB of RAM
- SVGA monitor that works with 16-bit colour, 1024 x 768 resolution
- CD-ROM drive
- USB 2 port
- 500 MB of hard disc space
- Standard two-button mouse (three-button mouse with scroll wheel is better)

Recommended PC operating systems:

- Microsoft® Windows XP, Vista and 7

Operating Conditions

Operating environment:

Laboratory environment

Storage temperature range:

-25°C to +55°C (when packed for transport)

Operating temperature range:

+5°C to +40°C

Operating relative humidity range:

30% to 95% (non-condensing)

Specification

Frame-Mounting Interface Unit (VDAS-F):

Dimensions:

- Nett: Width 190 mm x depth 130 mm x height 445 mm
- Packed: 0.07 m³

Weight:

- Nett: 4.5 kg
- Packed: 9 kg

Bench Top Interface Unit (VDAS-B):

Dimensions:

- Nett: Width 305 mm x depth 180 mm x height 40 mm
- Packed: 0.05 m³

Weight:

- Nett: 2 kg
- Total net weight packed: 9 kg

Computer connection:

- USB (lead included)
or
- RS232 D-type 9-pin port (lead available separately)

Accessories (supplied):

- All mains connectors and cables
- STP leads for equipment connection

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