

## AUTOMATION SOLUTIONS FOR USE IN TESTING HEATING UNITS

### *Fast and Flexible Measurement Technology*

The testing of heating units and systems is performed according to a wide range of demanding standards. To achieve this, automation of test procedures and results is required, but often involves lots of effort and is prone to error. While measurement data provides the basis for a product's technical specifications, the monitoring systems collecting it need to be capable of high-level precision.



However, the complex series of formulae governing automation are easy to generate using Delphin [ProfiSignal software](#). Delphin Expert Key and ProfiMessage devices are ideal for delivering the required levels of precision. A special feature within ProfiSignal software is its dynamic reporting function. Reports can be opened using the [ProfiSignal Viewer](#), printed, and sent as PDF files.

### Test Automation features:

- Complete systems including hardware and adaptable test stand software
- Fast and flexible connection technology
- Oil-scale equipment and gas meters
- Automated evaluation and reporting functions complying to standard requirements
- Easy-to-maintain and extendible oil and gas analysis tables

### Customer example

Recently Delphin prepared a catalog of testing devices ideal for a range of testing requirements to a major manufacturer of heating systems. The business selected their system according to their own specific application and requirements. For maximum versatility, analog inputs can be connected to any required thermocouple or

Pt100/Pt1000, while all sensors are connected using terminal connectors to enable highly flexible and fast setups.

All test procedures are now created using Delphin's ProfiSignal software, fully complying to the manufacturer's standards. Additionally, a servicing package ensures that each test application is always up-to-date and that the system remains compatible for future PC generations and operating systems.

ProfiSignal is a complete software system for data acquisition, analysis, visualization and automation. The software is very user-friendly and combines professional functionality with easy operation.

### Typical areas of application:

- Combustion trials using oil and gas
- Determining continuous performance
- Deficits in operational readiness
- Determining boiler efficiency
- Measurement of start-up pressure vibrations
- Storage trials
- Usable storage capacity
- CE symbol
- Combustion trials in wood-burning ovens
- Field trial systems

### The Data Logger Experts

CAS DataLoggers is an experienced Delphin distributor based in Cleveland, Ohio. We specialize in data loggers and data acquisition equipment to match any application in any industry. In addition to providing free basic technical support for all our products, our Inside Engineering Department also offers custom programming, installation, and more.

For more information on Delphin Measurement Systems, or to find the ideal solution for your application-specific needs, contact a CAS DataLoggers Application Specialist at (800) 956-4437 or visit our website at [www.DataLoggerInc.com](http://www.DataLoggerInc.com).