



Fardux

# DataCapture

*Flexibility, visibility, control*

Fardux's data acquisition system is based around a modular design that provides the interface between the Fardux AirWave gateway, which delivers data from remote assets, and Fardux's new FieldView asset management and control system.

Whether it's from a single well, refinery, pipeline or multiple fields, we provide all the data when and where you want it.

## OVERVIEW

Fardux is recognised by many as the industry leader when it comes to Surface Data Acquisition systems and has now developed a wireless system to work independently, or in conjunction with, our existing cable-based IDEA Data Loggers.

Fardux's DataCapture works seamlessly with FieldView and comprises of a Remote Terminal Unit (RTU) and an optional Output Switching Box (OSB). The modules are defined by a high level of reliability, data integrity, high speed processing components, remote system management, real-time status indicators and alerts.

The RTU and OSB have been made modular to allow for complete flexibility in terms of application and setup. The result is a cost-effective process measurement that includes signal status and device health information.



### ● DataCapture Remote Terminal Unit (RTU)

The RTU has been specifically designed and engineered to work directly with the Fardux AirWave gateway, receiving real time information via an industry-standard MODBUS link. The RTU stores the received data in its non-volatile memory for subsequent transmission at pre-assigned intervals via a GSM or 3G mobile or LAN/WAN network to the FieldView server located anywhere in the world.

### ● Output Switching Box (OSB)

The OSB is an optional device offering digital outputs to control devices such as surface and sub-surface safety valves. It can be activated directly from the central control function of the RTU when certain parameters have been exceeded or via manual intervention from the FieldView operating system.

### ● Output Switching Box (OSB)

The Fardux PSU is a low-powered unit that can be connected by mains or via its optional regulated 24V PSU. In the absence of a local power source our solar power unit has been specifically designed to handle the modular power requirements for remote field applications.

# DataCapture, OSB and PSU

Building on Fardux's industry-leading expertise in Surface Data Acquisition systems, DataCapture provides the visibility and control where you need it. Combined with Fardux's FieldView software, DataCapture applications include single well, multiple fields, plant monitoring, process optimisation, well testing, pipeline and tank and silo monitoring.

## KEY BENEFITS

- **Greater visibility.** Delivering near-real time operational information from field to remote monitoring office.
- **Enhanced control.** Ability to manage field assets remotely, saving time, money and improving safety.
- **Improved productivity.** Respond more quickly to wellhead issues with regular status updates and ability to remotely close-off wellheads.
- **Lower costs.** No cabling costs or associated expenses. Reduced need for on-site visits and maintenance checks.

## KEY FEATURES

- **High reliability.** Versatile and reliable using Linux operating system with expandable memory.
- **Data integrity.** Storage using high capacity non-volatile memory to ensure data availability and integrity if temporary communications is lost.
- **Scalable.** Light weight and portable, facilitating easy installation and placement.
- **Robust design.** Modular design utilising state-of-the-art technology to meet required industry standards.

## MAIN FUNCTIONS

- Rapid automated request for data at user determined intervals
- Utilises the simple and robust MODBUS industrial communications protocol
- Output Switching Box enables control of up to four external devices such as safety valves
- Smart power management allows for increased battery life while reducing size, weight and running costs
- Option to use mains power or separate 24V regulated supply
- Option to use solar power unit to provide independent power in remote locations
- Rugged, compact design for deployment in space-constrained areas
- UV resistant cabling used throughout, including CAT5 Modbus connection, connections between RTU and OSB, cables run to shutdown valves etc from the OSB and mains cable.

## Fardux

### WHY FARDUX?

We have always believed that the supply of our oil and gas data acquisition products and solutions is just the beginning of our relationship with our customers.

We endeavour to provide support from the moment the decision is made to purchase any product, and then throughout the product's lifecycle. We always work hard to ensure our customers are provided with the best solutions, support and advice.

*All the data, when and where you want it*



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