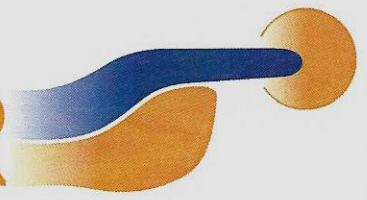




# COMMS COURIER



## In this issue:

### Online Well Test Training

Well Testing Training Course & Manual

### Encapsulated Power Supplies

Upgraded power supply modules for the IDEA and Lite loggers

### Training Schools

More about our recent training schools

### New software version released

Software version 3.1.0 has now been released for download

## Welcome

Since our last Comms Courier we have been busy thought the year taking on a number of new independent clients around the world. It is always good to have new clients but equally, we are just as keen to keep our historical clients satisfied as we continue to grow.

Part of our ever present concern is with regard to product knowledge and keeping our clients workforce up to date with our latest and greatest software and hardware offerings. We did notice a marked downturn in the uptake of our internal training courses in 2009, probably in consideration of the general downturn in the oil and gas business. 2010 has started very strongly in the industry and many clients are now facing potential skill shortages.

**continued >**



**...continued >**

Over the winter we have refurbished our training facility to provide a tailor made, training specific, high tech environment in which to conduct our internal courses. Notifications for these courses are sent out six weeks prior to the planned commencement dates and are also permanently visible on our web site at [http://www.fardux.co.uk/train\\_schedule10.pdf](http://www.fardux.co.uk/train_schedule10.pdf)

Please remember that we can always send an instructor to you if you have sufficient numbers to warrant setting up a client/country/location specific school. Fardux products are never static, as a consequence your people will need to keep up to date with their training in order to make the product do all that it can and enhance your delivery to the end user

Our real time web based delivery of well site Data continues to be actively employed around the globe. When projects are high profile and perhaps in deep water or even on land and very remote, DataCast provides a way of getting real time data to a clients engineering team in one or many locations simultaneously as the job unfolds. Many clients describe our DataCast delivery as being "Like being on the location". Please view our DataCast demo at [http://www.fardux.co.uk/datacast\\_software.htm](http://www.fardux.co.uk/datacast_software.htm) where you will find user name and password information.

## Online Well Test training

**At the request of several of our current well testing customers Fardux have undertaken the task of writing a Well Testing Training Course and Manual covering all the aspects of the practice of Well Testing.**

After the success of the Wellwise Group on-line Competency Scheme, the Well Test Training Course will be developed in a similar manner. It will be split into several sections from beginner to supervisor levels and will cover every aspect from the very basic information to the theory behind the well testing calculations. The web delivery will be via a series of individual downloadable sections that the Candidate will need to pass before proceeding to the next section.

The Well Test Courses will also be available via Traditional Classroom Lectures and will be supported by the web delivery. All information and manuals will be available via a secure server to eliminate the need to carry large and bulky documentation.

The entire system will be linked to the Wellwise Group's existing web based competency system to ensure the competence and professionalism of all who undertake the training.

The development is currently in the early stages, and we hope to have a prototype for demonstrations early in 2011.

**If you have any interest in Well Test Training for your Contractors or your Employees, please let us know.**

## Encapsulated Power Supplies

### Introduction

With more and more electronic components becoming obsolete, especially power supplies, Fardux have upgraded the power supply modules for the IDEA and Lite loggers.

### Detail

The design of the logger has been upgraded to allow the users access to the power supply modules by placing them on a printed circuit board that mounts on the backplane similar to the other cards.

**continued >**



**Figure 1:** The power supply card fits into the backplane as shown in Figure 2.



## Power Supply Specifications

<b>Input Voltages</b>	90 - 264 V ac
<b>Input Frequencies</b>	47 - 440 Hz
<b>Operating Temperatures</b>	-25 to +60 deg C
<b>Reliability/Mean Time Between Failures</b>	200,000 Hours

The advantages of using this approach are:-

The design is new and will not become outdated quickly.

With the method of mounting it ensures that the status of the card can be verified easily and quickly.

Again by mounting on the backplane the card can be easily

**Figure 2:** Fuses easily accessible.

changed out without the need of any specialist tools or knowledge.

Never work on a power supply if power is supplied, turn power off before opening logger case.

Ensure that all relevant safety precautions are taken before attempting any electrical work.



# Software Version 3.1.0

**The latest version of software is now available for download from our website at [www.fardux.co.uk](http://www.fardux.co.uk). This service is only available to our Daqlink members. Not yet a member? Then apply by email to [fardux@wellwisegroup.com](mailto:fardux@wellwisegroup.com) and type Daqlink in the subject box.**

As usual our new version of software contains some exciting new enhancements such as real time reports and enhanced dial and digital gauges.

The gauges are now set to auto range and the look has been enhanced, the external border is removable to save space on screen and Dial gauges can be stacked in a horizontal strip. Additionally you can also embed the gauges onto your bitmaps.

A new type of Dial gauge has also been added where the zero point is fixed to the 12 o'clock position; this is useful when viewing negative values such as wellhead temperature. It is also possible to choose a report to be expanded in real time on screen as new data is received by the application,

the report will auto scroll so as new data is received it is available to view in the report window.

We have listened to many requests from you all and have made changes to the report headers when printed. They have an improved look and you can now add 2 customisable bitmaps to the header, these could represent both your company and the client's logo.

We have also enhanced the headers on both plots and multiplots, multiplots also have an individual scale for each trace, another request many of our filed operators have requested.

These changes have also been carried over onto our datacast real time web view application, along with the option to print the report from the screen without the datacast banner.

Another enhancement on the datacast application is the ability to merge the operators log with the reported data. And on the operators log the latest event is now at the top of the list.

To view these changes visit our website at [www.fardux.co.uk](http://www.fardux.co.uk) and look at the datacast demo.

Finally we have enhanced the MODBUS section of the application, to make setup easier we have created a new MODBUS setup dialogue where the Byte order and post receive delay can be set from; this negates the necessity to edit the text file as in previous versions.

The external device status now shows the content of the last MODBUS message received, this value can be transferred to the MODBUS setup dialogue and used to setup the correct byte order.



# Training Schools

To date in 2010 we conducted SIX training courses, two of these have been for new customers SASOL in Mozambique and Almansoori in Abu Dhabi. The third and fourth courses were for GDMC in Kuwait, and fifth and sixth were back to back Basic Operator Courses in Oman for MB Petroleum.

Anybody who wishes to attend one of our training courses held at our UK facility can book a place online by visiting our website [www.fardux.co.uk](http://www.fardux.co.uk).

A training course schedule is also available so you can book a course at a time that fits in with your work commitments. The 2011 Schedule is now available. Below we show the students from the first three courses of the year. We will feature the second three schools in our next publication.



## APR 2010 - ALMANSOORI TRAINING SCHOOL ABU DHABI

Student names Left to right: Ankhilesh, Mahmoud, Hesham, Elie Doha (SRAK), Ahmed, Abdulrahmen, Haider, Ramy, Islam, Ahmed



## JAN 2010 - SASOL TRAINING SCHOOL MOZAMBIQUE

Back Row: Chris, Johan, Rudi, Theo, Victor,  
Front Row: Luis, Faustino.



## FEB 2010 - GDMC TRAINING SCHOOL KUWAIT

Back Row: Haider, Nabil, Fares, Samir  
Front Row: Mohamed

# SPE Intelligent Energy Show, Utrecht

Exhibited at the SPE intelligent energy show in Utrecht to showcase hardware and demonstrate the capabilities of Fardux products.

Gathering at such events are existing clients and potential new contacts as our industry show cases its finest technology, such gatherings are few and far between and are opportunities not to be missed. We hosted several simulations and demonstrated our web casting capabilities enabling clients to receive real time well test data from any global location with multiple recipients. Clients engineers are able to be centrally based yet evaluate data from any given job with associated savings in time and operating cost.





# Manual Control Levels

One of our long established customers required to control the levels in two series trained separators manually in order to carry out a flow back test to obtain a large sample of reservoir fluid before committing to production facilities. Fardux designed, built and implemented a system that could allow the operator to monitor and adjust the level in the separators manually.

This piece of equipment can be used in conjunction with the IDEA Enterprise System or as a stand alone solution to use an expensive PLC (Program Loop Controller).

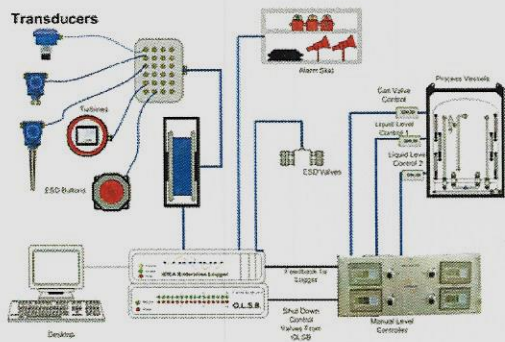
Pressure, level and flow rates were also required to be monitored which was already capable within the Enterprise system. This combined with the functionality embedded into the IDEA Enterprise system gave the customer the solution they were seeking.

The system was delivered tested and commissioned to our Client, and it was able to fulfil the following functions.

- Manual Control Of Fluid Level
- Manual Control Of Gas Pressure
- Remote Controller Status
- ESD On Set Events
- Use Of ESD Push Buttons
- Visual And Audible Sounders
- Interactive Graphics

The system was installed tested and verified by third party inspectors to the attached cause and effect sheet.

Sensor	Description	Status	Amber Visual Alarm	Audible Alarm (1)	Visual Alarm Green	Visual Alarm Red	Audible Alarm (2)	Dump Hydraulics To Pump	Level Valves To Default
1	Wellhead Pressure	HiHi				●	●	●	●
		Hi	●	●					
2	Shut Down Buttons	HiHi				●	●	●	●
3	Separator Pressure	HiHi				●	●	●	●
		Hi	●	●					
4	Separator Level	HiHi			●	●	●	●	●
		Hi	●	●	●				
5	Tank Level	HiHi			●	●	●	●	●
			●	●	●				





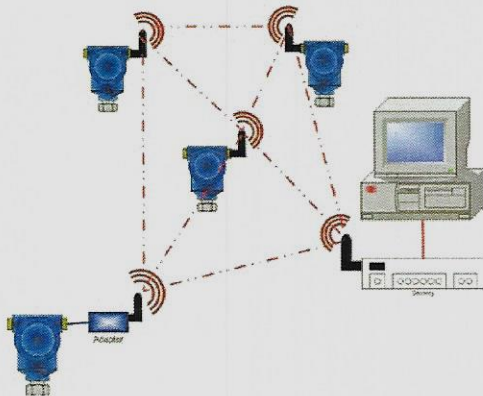
# Wireless Hart 2

Since our last article **WirelessHART is rapidly emerging as the standard that the major transducer companies have adopted.**

With WirelessHART the network is a mesh network with each transducer able to achieve communication to the gateway via multiple paths. This self healing gives the network the ability to function even if critical sensors are blocked or removed.

This means that where only individual manufacturer's systems can only communicate with the same vendor, with the WirelessHART systems from differing vendors all of the sensors can "talk" to each other.

## WirelessHART



## WirelessHART Mesh Network

Over the last year Fardux have been working on the WirelessHART integration and have developed two of the components vital to for use in the well testing environment.

Fardux have developed their own gateway in order to read the WirelessHART messages sent from the transducers.

This gateway is like all Fardux applications simple to use with all the complexity cut out.

The gateway comes in two versions:-

- a) Zone 2 Certified
- b) Safe Area.

The safe area versions come with a zone certified antenna allowing the antenna to be mounted in a hazardous area.

One of the major component pieces is a turbine adapter for WirelessHART.

Fardux have developed their own certified adapter shown in Figure 2.

The adapter consists of a turbine meter head combined with a separator module that combines the battery pack, electronics and antenna.

**Figure 2:** Certified for Zone 2

For further information regarding WirelessHART contact:  
<http://www.hartcomm.org/>





# A Day in the life of a Well Test / Data Acquisition Supervisor (Tony Ndulue)

## My Current Location and position:

My current work location is Port Harcourt, Nigeria and position is Senior service Supervisor involved in well Testing and Data Acquisition Services. I am actually in charge of Data Acquisition Service operations in Nigeria. Customer liaison and Well Testing/Early Production commissioning and operation are of course not left out.

But working for Expro in Nigeria involves from time to time travelling to assist other remote areas of other African countries like South Africa, Angola, Gabon, Congo, Equatorial Guinea, Ghana, Cameroun etc.

## My Main Job Functions:

I have been responsible and accountable for my work group providing Technical expertise and solutions to our numerous clients - Big and up coming - making sure Safety, Quality and Expectations are achieved and sustained and improved on.

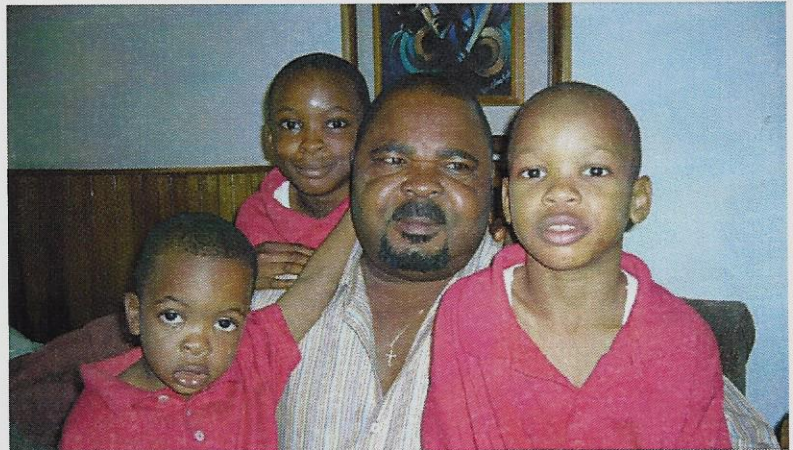
Day to day operation and maintenance of Data Acquisition and Well Testing Equipment both in the Base and at customer's field locations is part of our routine activities.

I have also in the past and most recently set up and operated Early Production Facilities for major clients. These operated for years in a Safe and most efficient conditions.

Of course keeping costs to As Low AS Reasonable Practicable (ALARP) without compromising Safety, Quality services and clients' satisfaction is a challenge but a key factor in Win-Win situations.

## What locations have you visited recently?

Locations visited recently include Aberdeen-Scotland (work shop seminar), Port Gentil-Garbon,



On Daddy's return from one of the numerous travels. Of course one Nigerian proverb says that "One whose head is used in breaking a coconut, does not partake in eating the coconut". Therefore, my dear wife who is busy clicking the Camera could not appear in the picture.



As far back as 1999, in Nigeria with our own Dear David Mason.

Point Noire-Congo, Cabinda-Angola, and as a matter of fact I am speaking to you now from Douala-Cameroun where I am currently co-ordinating a Well Testing project for our Cameroun Operations.

## Was there a highlight or lowlight?

Every day life is full of ups and downs but there are more ups than downs. To God be the Glory



# A Day in the life of a Well Test / Data Acquisition Supervisor (Tony Ndulue)

## Background (job history)?

Started as an Operator trainee in 1989 with Otis Pressure Controls (A Halliburton Company) in Port Harcourt Nigeria.

**1992-1994:** Transferred to Halliburton Reservoir Services Ltd, as a Senior Well Test Operator involved in Well Testing Operations-offshore, onshore and swamp locations around Nigeria.

**October 1994:** Transferred to Halliburton Energy Services Ltd as Service Supervisor with service job scope increased to services out side Nigeria- Angola, Equatorial Guinea, Congo, Cameroun, Gabon etc.

**November 2004:** Moved over to Powerwell Services Ltd/Expro Group part of Well Test team covering Well Testing, Data Acquisition Services and Early Production services.

## Challenging Aspects of my job:

Every different day comes with its different challenges. Sustaining quality leadership roles required to get along with subordinates and superiors alike is of course one of them.

## How Fardux Data Acquisition Products are used in Area:

A very wide acceptability by our numerous clients - big and upcoming - had been our major bonus using Fardux products.

We had been able to deploy Fardux Data Acquisition packages to a wide range of operations in Nigeria - DST and well clean up operations and Early Production facilities that operated 24/7 for years without Data Acquisition problem.

Fardux 24 channel Logger and its associated accessories are one of strengths in Data Acquisition Business here.

A very good working relationship developed over the years allows us 24/7 access to Fardux team to offer advice whenever we have any issue in Data Acquisition.

## Location I would like to travel/work in:

Although I have travelled quite a lot to remote countries around Africa- Angola, Congo, Equatorial Guinea, Gabon, Ivory Coast, Cameroun etc, and would actually prefer to be working closer to home now, a Middle East experience won't be a bad idea.

## Marital Life:

I am married and my wife, Ngozi and our children had been my greatest supporter and a very good source of my strength in achieving most of my objectives.

## My Hobbies?

Listening to good music, watching good soccer Games and cooking- although my wife doesn't like me to cook because I use too many ingredients.



Retraining and Recertification time for the Boys with resourceful Paul Budworth.