

DEIF Newsletter

December 2011 • 6th edition



Moving forward, steadily

In September, DEIF Marine & Offshore System Solutions commissioned a Delomatic 4 Power Management System (PMS) for a seismic research vessel built at Sekwang Heavy Industries in South Korea.

The Rolls Royce NVC-830CD design has a towing capacity of 12 streamers 8,000m long with 100m streamer separation.

For seismic vessels, it is essential to keep a steady forward thrust when the streamers are in the water: if the propulsion power is lost, the streamers risk getting entangled causing major operational setbacks. Worst case scenarios mean a return to base and damage to equipment worth millions of USD.

Integrating DEIF's Delomatic 4 Power Management System (PMS) as part of the vessel's control systems secures safe

and reliable operation at the engine level.

The redundancy in the propulsion on this vessel is obtained with several different Power-Take-In (PTI) emergency modes supported by the Delomatic 4. When the vessel is in transit both main engines are running and connected to each individual propeller. Either one of the shaft generators can be connected to the switchboard.

During seismic operation the main engines are only supplying mechanical power to the propellers. The main diesel generators are connected to the switchboard and are supplying the electrical load from the big seismic compressors.

In case of mechanical failure on one of the main engines during seismic operation, it is possible to use one of two available emergency modes. In these

modes, it is possible run both propellers, one mechanically driven and one electrically driven by the PTI.

The emergency modes are activated and controlled through extensive interface between the propulsion control system, pony motor drive and Delomatic 4.

In Emergency I mode one shaftgen is used as Power Take-Out and connected directly via PTI bustie to the other shaftgen in PTI mode. In Emergency II mode the PTI is supplied from diesel generators via shaftgen breaker.

Delomatic 4 also features automatic sequences for control of the pony motor for the PTI.

Visit www.deif.com for further information or contact Project Manager Jesper R. Larsen at jrl@deif.com.

Dear Partner.

This DEIF Marine & Offshore Technology Newsletter features a case story on a seismic research vessel, and an introduction to a powerful and compact multi-output transducer, a phase-out message, and announcements regarding new offices in Loveland, Colorado, Mexico City, and Pune, India.

As always, we're pleased to announce the exhibitions and trade shows we'll be attending over the coming months and in 2012.

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The size of a portable hard drive

Powerful, fast, and compact, DEIF's MTR-3 multi-output transducer range has been designed to measure and monitor on single-phase or three-phase networks. The transducer comes with up to four analogue outputs, is easy to programme and configure via USB interface with free, user-friendly utility software from DEIF and needs no external power supply during programming.

The size of a portable hard drive, the MTR-3 is slight in size but offers performance equal to that of four standard transducers, measuring and calculating AC voltage, AC current, active/reactive/apparent power, power factor, frequency, kWh, kVAR, THD, dynamic and maximum demands.

The MTR-3 range has a standard response time of less than 200 ms, with the MTR-3F offering ultra-fast response at just ≤ 50 ms. Modbus data refresh time

is also just 50 ms with transfer data up to 115,200 bit/s. The accuracy class is 0.5 for analogue data and 0.3 for Modbus data. With configurable outputs for more than 50 parameters and a universal power supply (19-300V DC, 40-276V AC), it is possible to stock the MTR-3 with future installations and reconfiguration for almost any application in view.

The MTR-3 is available in four standard versions.

Utility software is available for free download at www.deif.com.

For further information also visit www.deif.com or contact Product Manager Claus Wendelin Jensen at cjn@deif.com.



Upcoming exhibitions

Date	Industry	Exhibition	Country
29 November-2 December	Marine & Offshore Technology	Marintec China	China
30 November-2 December	Marine & Offshore Technology	The International Workboat Show 2011	USA
13-15 December	Power & Control Technology	Power-Gen International	USA
18-22 January	Power & Control Technology	Elecrama	India
7-9 February	Power & Control Technology	Middle East Electricity 2012	Dubai
18-19 April	Power & Control Technology	Electrex 2012	UK
19-21 April	Power & Control Technology	Power-Gen India & Central Asia	India
4-7 June	Power & Control Technology	Eliaden 2012	Norway
28-31 August	Power & Control Technology	ONS 2012	Norway
4-7 September	Marine & Offshore Technology	SMM 2012	Germany

DEIF controllers to be phased out

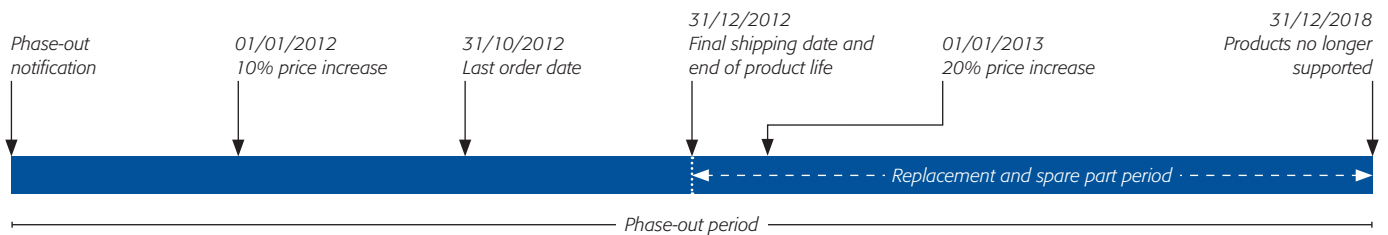


In connection with continued R&D and product development, DEIF is phasing out its Generator Protection Unit GPU-2, and Paralleling and Protection Unit PPU-2 with milestones as outlined below.

Visit www.deif.com for further information or contact Product Manager Jesper Abildgaard at jab@deif.com.

To be phased out	Recommended replacement
GPU-2 (ver. 1.7 and ver. 2.x)	GPU-3
GPU-2 (ver. 1.7 and ver. 2.x)	PPU-3

Phaseout schedule



31st October 2012

Last call. New orders for GPU-2 and PPU-2 must be placed before this date.

31st December 2012

Final shipping date – beyond this date only orders for replacements and spare parts will be processed and only until end 2015.

1st January 2013

General price increase of 20% on both GPU-2 and PPU-2.

31st December 2015

Last opportunity to order spare part units.

DEIF Inc. relocates to new premises

DEIF Inc. has moved to bigger, better premises to both satisfy company growth and demand for improved training facilities. DEIF Inc.'s new contact details are:

DEIF Inc.
3855 Precision Drive, #180, Loveland, CO 80538, USA

Office: +1 970-530-2261
Toll free number: 888-265-7897 (not available from outside the US)

DEIF India

As part of its continued expansion DEIF India has opened its fourth India office in Pune, Maharashtra, 150 kms from Mumbai:

DEIF India Pvt. Ltd.
Office No. 107, 1st Floor, Mohite Paradise,
Sinhagad Road, Pune – 411051
Contact Person : Mr. Ajay Nair

Mobile No.+91 9769 68 9116

DEIF de México

In line with DEIF's strategy to be a locally anchored, global knowledge group in power technology we are pleased to announce the opening of new company offices in Mexico City.

DEIF de México offers sales and support and stocks a product line relevant to the growing Mexican market. Formally, DEIF de México is part of DEIF Inc. in Loveland, CO, which has extended training and simulation facilities.

The Mexico office will be headed by Juan F. Illades, a capacity in the generator business area well prepared to direct the new company and assist new and existing DEIF customers.

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