SERCEL

VE464

VIBRATOR ELECTRONICS

VE464

High-productivity vibroseis operations

For decades the VE416, followed by the VE432, have been the most advanced vibrator digital control systems in the industry; well known for the precision of their generated signals and the diversity of vibroseis techniques they have managed.

The VE464, successor of this tradition of advanced vibrator electronics, benefits from the latest developments in integration, radio transmission and servocontrol.

With these major improvements, the VE464 delivers and controls signals with higher accuracy and speed, allowing its users to implement vibroseis seismic easier than ever, aiming for ever increasing productivity and flexibility.

VE464 - DSD

VE464 - DPG

FEATURES & BENEFITS

Advanced vibroseis techniques

The VE464 is a powerful vibrator digital control systems, using a fully auto-adaptive servomechanism. It enables the use of advanced vibroseis techniques such as:

- pseudo-random sweeps
- multiple simultaneous sources in flip-flop or slip-modes(1)
- coded sweeps
- cascaded(2) sweeps
- custom sweeps (personalized & confidential)

The VE464 has reached an even higher level of flexibility, offering dedicated sweeps, by programming a different sweep per vibrator in a given fleet.

(1) i.e.: slip-sweep invented by P.D.O
(2) Exxon patent

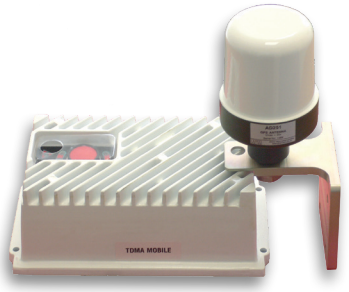
Stakeless operations

Each vibrator can be guided by its Sercel acquisition systems from one pre-planned VP to the next one by using the GPS guidance option of the VE464.

Improved communication

One of the major advancement of the VE464 is the use of TDMA Radio (Time Division Multiple Access) instead of the standard VHF transmissions (still an option of the VE464). TDMA Radio, due to its full duplex protocol, increases the capacities of the system allowing:

- no interference when using more than 2 fleets in navigation mode,
- the use of an increased number of fleets (100 fleets max.)



Enhanced real-time quality control

A complete QC data base is generated for real-time or post-processing analysis including phase, distortion and fundamental ground force.

In addition, the digital control identifies the ground viscosity and stiffness, which regularly provides information on the ground absorption model and can be used to enhance seismic data.

Other QC measurements can be sent to the acquisition system in real time or stored on a local hard disk for further analysis and treatment requested by some particular acquisition methods (i.e. HFVS(3)).

(3) Mobil patent

SERCEL - FRANCE
16 rue de Bel Air
B.P. 30439 - 44474 CARQUEFOU Cedex
Téléphone : (33) 2 40 30 11 81
E-mail : sales.nantes@sercel.com
SAS au capital de 25 000 000 €
Siège Social : 16 rue de Bel Air - 44470 CARQUEFOU
378.040.497 R.C.S. Nantes Code APE 2651B

SERCEL INC. - U.S.A.
17200 Park Row
Houston, Texas 77084
Telephone : (1) 281 492 6688
E-mail : sales.houston@sercel.com

www.sercel.com

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