

# DSU 3-428

## NEW FEATURES AND BENEFITS

### OMNI-TILT

New features of the DSU3-428 include insensitivity to tilt, improved packaging, and reduced power consumption.

The orthogonally configured digital sensors inside the DSU3 make it possible for them to be deployed in snow, desert, on hills, or wherever at any tilt angle. The sensors detect the effects of earth's gravitational pull on each sensor allowing them to identify their orientation in relation to a vertical plane, and make the appropriate corrections.

### REDESIGNED PACKAGING

The packaging of the DSU3-428 has been redesigned to move the sensors deeper into the ground when planted. Lowering the profile of the unit provides greater protection from surface wind noise susceptibility and optimal ground coupling.

### REDUCED POWER NEEDS

Very low power consumption (as low as 265mW for the 3 sensors and the associated data transmission and test circuitry package) allows seamless deployment of thousands of units and fewer trips back to the field during operations for battery maintenance and recharging. Efficient power management with only one battery required for every 40 3C stations in the ground improves crew logistics (A 10,000 station, 30,000 channel crew uses only 250 batteries.) The batteries used may be any 12V battery whose size and type can be selected to suit the local environment or temperature.

Omni-directional sensors, minimal battery use, and ease of deployment all result in highly productive seismic field operations.



*The DSU has proven to be  
high-performance,  
power-efficient and  
reliable in all operations.*

