

ADRE* Transducer Power Supply Module

Integrated power supply provides power for accelerometers, proximity probes, velocity transducers, and more

A new module for the ADRE portable data acquisition and analysis system is now available, providing power for a wide variety of displacement, velocity, acceleration, and other transducer types used in field and test stand applications.

A primary design objective of the new ADRE system was to eliminate the need for carrying extra devices such as oscilloscopes, spectrum analyzers, tape recorders—and power supplies. As anyone who has worked in the field understands, simply mounting temporary, supplemental transducers is only half the battle; they must then be powered. In the past, this meant lugging one or more power supplies to accommodate the various power requirements of proximity probes, constant-current (i.e., ICP) accelerometers, non-ICP accelerometers, and other transducers, such as those running on +24 vdc.

The new module can simultaneously power up to 32 transducers in various combinations. It provides direct physical connections for 16 transducers (eight +/-24 vdc transducer systems and eight accelerometer/velocity transducer systems). Additional transducer connections can be accommodated using accessory connection adapters and an external breakout panel¹. In addition to +/- 24 vdc selections, +/- bias selections are available for constant current applications, all of which can be used simultaneously providing a highly flexible power source for most any need. Transducer power is user-configurable in blocks of four directly from the card without the need for special tools, jumpers, or software.

The new transducer power supply module occupies a single slot in the ADRE DSPi 408 chassis and provides power for a wide range of transducers.



The module's design provides each output with individual short-circuit protection and indicators for power status and voltage/current selection (complete card status is provided within ADRE Sxp client software). Also, users do not need to sacrifice channel capacity when using the new power supply module because it occupies a dedicated option slot on the back of the ADRE DSPi 408 chassis, leaving all transducer input slots available.

Capabilities for future functionality have been incorporated that will allow users to configure outputs for custom voltage supply requirements via the external breakout panel¹. This will allow powering older proximity systems that run on -18 vdc or +15 vdc, or industrial sensors that use non-standard supply voltages such as 6.5 vdc, making the ADRE system compatible with and capable of powering virtually any transducer type.

To learn more, contact your nearest GE Energy sales professional specializing in the Bently Nevada product line. You can also request a copy of the ADRE datasheet by using the Reader Service Card in this issue of ORBIT, or by accessing the online version of the Reader Service Card at www.orbit-magazine.com.

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¹The external breakout panel will not be available at initial release, but is a planned future enhancement.

