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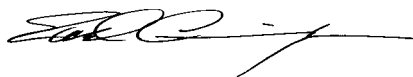
From the CEO:

Greetings once again from sunny San Diego, CA. I hope this past summer has been productive and enjoyable for all of you. It has been quite a good start to the new fiscal year for Ectron. Our business with the Fortune 500 is steady, and the U.S. Dept of Defense keeps us really busy. One of the few dips we see is in the automotive sector. Our friends at Anderson Electronics are doing everything they can to generate new business during this downturn for the Big Three in Detroit. Hang in there guys.

Our new 1140A Thermocouple Simulator-Calibrator has been the darling of the industry. We can't keep these in stock. The U.S. Navy, many Calibration Labs and many of our installed base of customers have really been gobbling them up. We are well into our fourth generation build cycle and it looks like we will have to accelerate the ramp-up more to keep up with demand.

My advice to all of you is to get on the bandwagon and sell our newest, most innovative Thermocouple Simulator-Calibrator in decades. Have a good fall campaign. Now let's get out there and sell something.

Sincerely,



E. Earl Cunningham, President and CEO

1140A Options and Accessories

Available now and shipping soon for the 1140A Thermocouple Simulator-Calibrator are:

1. LabVIEW driver for the IEEE-488 (GPIB) Remote Interface. On Ectron's website, go to Support Tab, then select Driver Downloads from the menu. Link will be to National Instruments website. Download this GPIB driver.
2. Ethernet interface – mid October 2008 - \$495 option
3. Carrying case – plastic hard shell
4. Calibration tool kit – Calibrated type "T" thermocouple and shorting bar



Ectron's History of Product Innovation

A Continuing Series.....

Ectron Corporation has a history of developing innovative products, products that were unique and that advanced the state of the art for the test and measurement field. Some of these product advances include the following.

- Testing of Ectron's early thermocouple amplifiers was a difficult and tedious chore. The test setup involved an ice point reference, calibrated thermocouples, a temperature chamber, a dc standard, and a look-up table. Because of an obvious need, it wasn't a difficult decision to design and produce the industry's first all-electronic thermocouple simulator and calibrator. This was the Model 1100 developed in 1973.
- During underground nuclear testing in Nevada, Ectron was asked by engineers at the Los Alamos National Laboratories and the Lawrence Livermore National Laboratories to design a transducer conditioning amplifier that could endure the rigors involved in the measurement of microvolt signals despite the horrendous electrical conditions. Ectron engineers succeeded and the Model 776 was the result. It could not only survive the over 1,000 volt input transients but it could recover in microseconds to show accurate data never seen before. Over 2,000 of these amplifiers were delivered. The wideband Model 778 is our current similar conditioner-amplifier.

Tech Tips: Did you know...?

Bridge – A four-arm array of resistive elements, one or more of which are active. The input to a bridge can be voltage or current, and the output is connected to an amplifier. When one or more of the active elements changes in resistance, a corresponding change in voltage becomes the input signal to the amplifier.

Excitation voltage – A precise voltage applied to a bridge that remains constant with changes in the resistive elements of the bridge.

Excitation current – A precise current applied to the bridge that remains constant with changes in the resistive elements of the bridge.

Filter – A circuit that attenuates signals above or below a specific frequency without materially affecting signals in its pass band; an electrical device used to suppress undesirable electrical noise.

Gain – An increase in the strength of an electrical signal; gain is measured in dB; the degree to which a signal's amplitude is increased; the ratio of output power to the input power for a component or system.

Shunt – A precision resistor that is placed in parallel with another component to effect a predetermined change.

Shunt calibration – By connecting a precise shunt resistor in parallel with one of the arms of a bridge, a change in the output of the bridge is made, which in turn, causes a change in the amplifier output. This process is known as input shunt calibration.

Vernier – A control, such as a potentiometer, that allows fine control. For example, a vernier gain control allows virtually infinite gain settings between major gain steps.



Personnel Announcements

Ectron Employment Anniversaries

Howie Clark – Operations, 34 years
Jonathan Jacob – Engineering, 23 years
Amy Cunningham – Marketing, 2 years
Michael M. Fontes – Sales, 2 years

New Hires

Michael Lascu, Test Department,
6 months

Births/Birthdays

Kyle Pham Huynh, 1 year old

Sales Representative Awards, Calendar Year 2007

U.S. Rep of the Year

Wallace Technical Sales – Southwest U.S.
Dave Wallace sold \$211,500

International Rep of the Year

Enertest – France
Mathieu Ratard sold \$93,952

Application Note: Mast Moment Detection and Countermeasures System

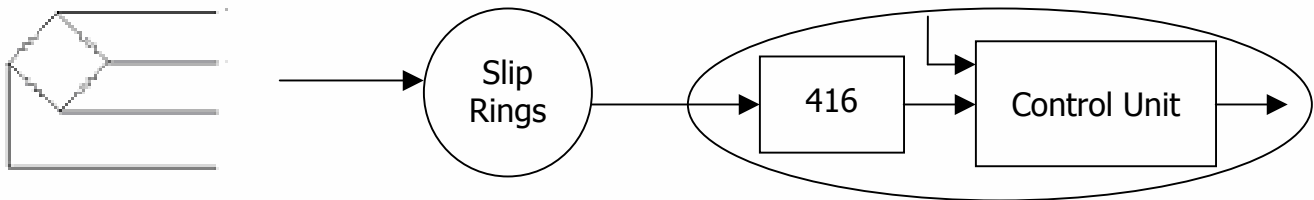
***Courtesy of Hindustan Aeronautics Ltd., India*



If you have ever ridden in a helicopter, you know about the vibration and noise of these aircraft.

Most of this vibration is caused by the rotation of the rotor blades which travels down the drive shaft (mast) of the blades.

A helicopter manufacturer in India needed an amplifier that could not only withstand the rigors of this on-board application, but that could also provide very accurate data.



So they chose the Ectron Model 416 to excite and amplify strain gage signals which are passed through slip rings attached to the mast. These strain gages are directly attached to this drive shaft. Strain gage data along with other signals are combined to determine the dynamic mast moment of the mechanical system. When this parameter exceeds safety limits, rotor speed is automatically reduced.

