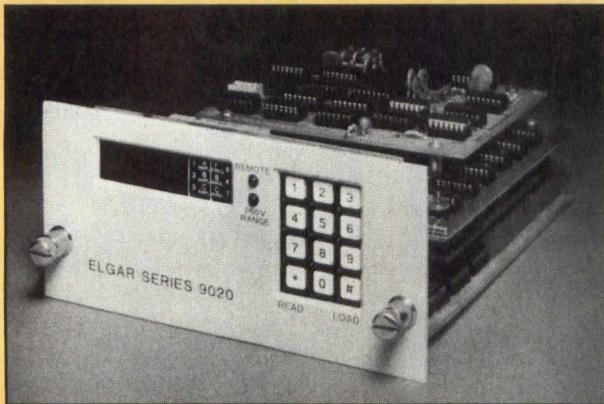# ncc '83 product preview

power sources & protection

Plug-in programmable oscillator

See at Booth W6083

Six function programming for multiphase ac power source systems is available with the Series 9020 Programmable Oscillator. Three phase amplitudes, 2 phase angles, and frequency can be programmed via GPIB IEEE 488 logic or front panel keyboard. The programmable oscillator includes a 4-digit display that can be recalled from the keyboard. This will display what has been previously programmed or what is being programmed for any of the 6 functions.

The oscillator is capable of up to 0.01-Hz frequency programming resolution with ±0.001% accuracy as well as 0.5° phase angle programming resolution. Optional automatic range change for associated power amplifiers and 0- to 130-Vac/0- to 260-Vac dual voltage range with a 0.1-Vac programming resolution is also included. *Elgar Corp*, 8225 Mercury Ct, San Diego, CA 92111.   Circle 214

AC voltage monitor

A detachable detector module on the Stabiline monitor allows monitoring of 1- or 3-phase power lines. For 3-phase applications, the system monitors all phases; different sag, surge, low average, high average, and impulse levels can be set for each channel. The system can monitor 120-, 208- to 240-, or 480-Vac power lines and can check dc power sources up to 10 V. Since thresholds for each channel can be set independently, 120-, 240-, and 480-V 1-phase lines can be monitored simultaneously. A system consists of a Remotector detector module and a microprocessor based printer/controller module. Threshold limits, calendar and clock settings, and monitor identification number can be entered with push-button keys. The detector can be left at a site to perform its monitoring function; units with identical or different threshold values can be left at various sites. The detector module and printer/controller can both be interfaced to an industry standard modem through an optional modem adapter. This permits communication over a conventional telephone line under Bell System Standard 103B. Ten rates are available with 110- or 300-baud acceptable for telephone line implementation. Data transmission is full-duplex asynchronous. System memory can total up to 98,400 events and retain them for several months under backup battery power. Data are presented in a categorized format, with a summary of the 10 worst events in each category followed by a list of the last 10 chronological events. An additional channel allows monitoring of user-generated signals representing an event in the user's equipment. *The Superior Electric Co*, 383 Middle St, Bristol, CT 06010. **See at Booth N4600**   Circle 215

system elements

Low profile keyboard and keytops

See at Booth N3666

Series FC2500 features solid state ferrite core, linear or tactile feel keyswitches, as well as full surface multistation keytops. The keyboard meets or exceeds ergonomic height restrictions of 30 mm from keyboard base to home row keytop surface. Features include LED indicator, 5-Vdc operation, flexible key assignment, odd or even parity, and serial and/or parallel output as well as selectable baud rates.

The low profile keytops feature full matte finish to reduce reflection, a large surface area for legends, and protection against office environmental elements. The keytops also ensure accurate location of operator's fingers. N-key rollover, and electronic shift lock are also provided, and there is no keyswitch bounce. *Cortron, Div of Illinois Tool Works Inc*, 400 W Grand Ave, Elmhurst, IL 60126.

Circle 216