

E-Z Tec DSP Control



Eriez' state-of-the-art Digital Control System provides a user-friendly interface through a menu-driven digital hierarchy. The digital screen offers alphanumeric displays of all preset functions or reject occurrences as they take place and also records the date and time of product changes.

Digital processing and controls on all E-Z Tec DSP Metal Detectors allow fast product changes. The active (present) product can be changed via the Touch-Screen Interface or remotely through RS-485 computer interface connections.

50 different product selections can be stored with each product selection defining such parameters as sensitivity, gain, phase, product description and relay states. Unauthorized changes are eliminated by a four level security code. Data memory retention prevents memory loss. The control provides user-specified self-checking and periodic calibration procedures.

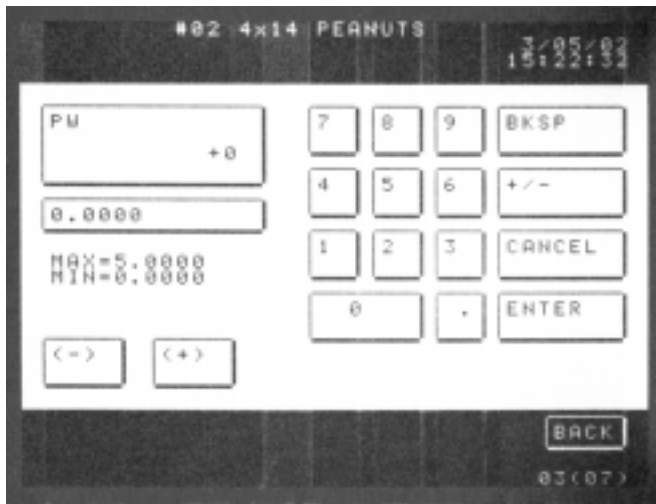
The report menu displays report number, product, date, time and magnitude of the reject signal. The internal memory holds full details of the last 100 rejects for visual review, counting up to 10,000 rejects. Reports may be uploaded to a computer via the RS-485 interface port. An unlimited record of reject reports can be stored on the computer.

- **Bar Graph** will provide a visual indication of the strength of the detection signal in relation to the metal size, and is also used to monitor the phasing-out procedure for products.
- **Threshold** adjustment allows for setting of the detection threshold for minimum and maximum metal sensitivities.

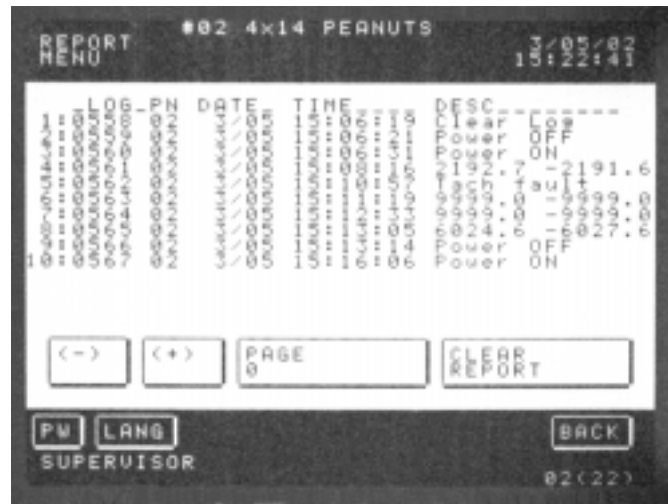
- **Phase** adjustment provides the user with the capability to adjust the metal detector to minimize product effect and the ability to peak a response to a particular metal.
- **Shift Register** stores multiple detections for precise rejection of metal. A tachometer input is provided for variable product speeds.
- **Travel Time** is an adjustment controlling delay of the detection signal output. This will allow time for the detected contaminant to be positioned at the downstream reject device (such as, air blow off, pusher arm, flip gate, etc.). It can be set from 0-60 seconds with a 0.05 second resolution.
- **Reject Time** is a variable adjustment for extending the reject output signal. This feature allows the user to adjust the reject output time from 0.05 to 60 seconds.
- **Output Relays** include two individually programmable relays, one with two form "C" contacts and the other with one form "C" contact.
- **Frequency** of operation is optimized for the aperture size and the product to be inspected.
- **Product Speed** ranges from 3 fpm to 8000 fpm (0.02mps to 40 mps) depending on aperture size.



E-Z Tec DSP Control (continued)



Easy to Read Touch Screen



Reject Report Menu

FEATURES

- Angled control panel for easy viewing and accessibility to metal detector settings.
- Quick recovery after detection of large tramp metal.
- 100-foot (30 m) remote control capability.
- Automatic line voltage selection; 120/240 volts, 48-62 Hz
- Easily serviceable boards with electronic diagnostics.
- Various inputs and outputs for controlling reject devices.
- Auto-Setup
- User specified self checking and calibration verification.
- Remote monitoring via an RS-485 output.

