

Model 15

Multi-Format Encoder

Features

- Combines Digital and Analog formats in one unit
- Single key re-page of last page made
- Multiple pagers entered into keyboard stack
- Automatic transmitter keying and microphone muting
- Transmit inhibit input provides automatic channel monitor
- Custom two-tone paging tones, or Plectron format
- Serial Port supports Alphanumeric paging
- Single key access to stacked pages
- Keypad programmable for format setup

Introduction

Model 15 Field-Programmable Encoder

The Model 15 is designed so that all setup parameters are keypad programmable and can be changed by a technician at the site to support any required system changes. The unit includes the Analog, Digital, and/or Custom Calls paging format packages. The installer can set up to 14 blocks of paging formats without having to contact Zetron for new firmware. This makes the Model 15 a good choice for most manual encoder applications.

Operation

The Model 15 encoder is designed for simple operation. Pages are entered with the sixteen button keypad and are displayed on a six character LED display for verification before being sent.

A special key is provided to clear an invalid entry or abort a page in progress. A page can be repeated simply by pressing the page key again as long as the last page code is still in the display. The paging cycle is always indicated in the display to eliminate confusion.

Stack Pages

An operator can select a programmed stack of pager codes by entering a single digit. These stacks can be changed in the field.

Alphanumeric Paging From A Computer

The Model 15 includes an RS-232 port and various cables are available to connect to a CRT or personal computer. This allows on-screen control and the entering and sending of alphanumeric text messages.



Alert Tones

This feature allows the user to send an audible alert (assuming the use of tone and voice pagers) following each page or stack of pages in the form of electronic siren, beeps, or hi/lo warble.

Installation

The installation of the Model 15 is straightforward. The encoders can be powered by a wall transformer or an external 12 VDC supply. The unit performs a self-test of the microprocessor circuitry when power is first applied.

With the M15 all connections are made on a screw terminal strip. Relays allow transmitter keying and microphone muting.

An input is provided for connection to a channel activity indicator, such as a COR signal, to inhibit the encoder until the channel is clear. A steady tone can be generated to facilitate transmitter deviation adjustments.

Paging Formats

The Model 15 features analog, digital and custom paging formats.

Analog Formats

The Model 15 allows field selection and programming, from the front panel keypad, of any of the common analog paging formats. Formats included are Motorola, GE, Reach, 5/6 Tone, DTMF, HSC and others.

Digital Formats

The Model 15 includes POCSAG, GOLAY (GSC), Metro Pageboy, and NEC formats.

Custom Formats

The Model 15 is the ideal encoder for alerting nonstandard tones, including Plectron and Federal. The Model 15 allows the installer to program the custom frequencies in the field, without sending the unit back to Zetron and also lets the owner create stacks of pages that can be initiated with one or two keystrokes.

POCSAG

When using this format, a "digital capable" transmitter is necessary, as with other digital paging formats. Numeric messages may be entered from the keypad.

Metro Pageboy/ Metrx

This version of the Motorola 2-tone sequential paging tones and format has a four digit capcode and allows for higher capacity paging than the more typical codeplans. Group call is supported in this option as well.

SPECIFICATIONS

Formats

Tone Formats: Motorola or GE two-tone, Five/six tone sequential, Reach, 2805 Hz mobile phone dial, DTMF, 1500 Hz, Hexadecimal Sequential Code

Digital Formats: POCSAG numeric display, Motorola Golay numeric display, NEC tone only, NEC numeric display, POCSAG alphanumeric display, Golay alphanumeric display

Call Capacity

Two-tone: 100/1000-call and group call
Multiple 1000-call plans

Five-tone: 100/1000/10,000/100,000-call with optional preamble or dual address

Custom Calls: Random selection of tones and timing up to 200 calls

Reach: 100/1000-call and group call
2805/1500/DTMF : 3, 4, 5, 6, 7, or 8 digits

POCSAG: 512, 1200, or 2400 baud data rate, Voice, 255 character Alphanumeric messages, 1 of 4 strappable function codes

Alert Tones: Automatically added at the end of the page sequence. Choice of beeps, sirens, or warbles

Special Features

Display: Large 0.4" high, six digit, 7 segment readout

Page Indication: Display message

Voice Prompt: Display message ("talk" when appropriate)

Built-in Self Test: Comprehensive test on power-up. Mode for setting transmitter deviation. (Analog and

Digital)

Re-page : Units holds prior pager number in display

RS-232 Serial Port: 300, 600, 1200, 2400, 4800, 9600 jumper selectable baud rate.

Keyboard Stack : Allows the entry of a number of pager codes at one time from the keypad to be paged all at once

Field Programmable: The format configuration is fully programmable from the keypad. Menu prompts on the LED display

Options

Power Supply: 115 VAC 60Hz Wall Transformer
220 VAC 50Hz Wall Transformer

Electrical Specifications

Output Frequency Range: 250 - 3500 Hz +/- 1.0 dB maximum

Frequency Accuracy: +/- 1.0%

Audio Output: Single-ended. Adjustable, +5 dBm to -20 dBm (0-4 Vpk-pk into 600 ohms)

Tone Distortion: 2% nominal from pure sine wave

Digital Output: +/- 0-7 VDC, adjustable, polarity selectable

Control Outputs: 2 sets of SPDT contacts, rated at 1 A at 26 V AC; One for PTT, one for switching audio output between tone and microphone

Transmit Inhibit: Senses closure to ground

Power Supply: 120 VAC +/- 15%, 48-62 Hz wall transformer
12 VAC rms or 12-14 VDC at 700ma maximum

Operating Temp.: 0 to +65 degrees Celsius

Size: 3.3"H x 8.2"W x 9.3"D Desktop high impact plastic case

Weight: 19 oz.



ZETRON AMERICAS
PO Box 97004,
Redmond, WA USA
98073-9704
(P) +1 425 820 6363
(F) +1 425 820 7031
(E) zetron@zetron.com

ZETRON EMEA
27-29 Campbell Court,
Bramley, Hampshire RG26
5EG, United Kingdom
(P) +44 1256 880663
(F) +44 1256 880491
(E) uk@zetron.com

ZETRON AUSTRALASIA
PO Box 3045, Stafford Mail
Centre, Stafford QLD 4053,
Australia
(P) +61 7 3856 4888
(F) +61 7 3356 6877
(E) au@zetron.com



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