



FEATURES

- Easy to install and operate
- Built-in transceiver (selectable 2 or 4 watt)
- Built-in display and numeric keypad (alphanumeric keyboard optional)
- Accommodates up to 1000 pagers
- POCSAG 512, 1200 and 2400 baud paging - numeric and alphanumeric pagers
- Two-tone voice paging and talkback
- Telephone line for access from any Touch-Tone (DTMF) telephone
- Group paging for alerting multiple pagers
- Natural (not synthesized) voice prompts for easy telephone access
- 8 Alarm inputs
- 2 Data ports supports TAP, Motorola's COMP1 or COMP2 protocols
- Two-way talkback with CTCSS (PL squelch and two-tone signaling)
- Mobile origination of pages or telephone calls
- External transmitter interface for higher power applications

APPLICATIONS

- Health Care
- Hotels, Motels, Resorts
- Retail Outlets, Restaurants
- Manufacturing

INTRODUCTION

The PageCenter is a complete, on-site paging system with built-in transceiver. Designed for a wide range of applications, it accepts paging requests from its numeric keypad, optional alphanumeric keyboard, two RS-232 data inputs, DTMF telephone port with voice prompts, and eight alarm inputs.

EASY TO USE AND VERSATILE

Designed to take up the minimum of desk space, the PageCenter is at home on a receptionist's or switchboard operator's desk. Sending a message to a pager is as quick as keying in a few numbers and pressing the enter key. Talking to a two-way radio is easy as using a speaker phone with the PageCenter's built-in microphone - especially useful when the operator already has a headset on.

The telephone port can be plugged in anywhere a fax machine will work, giving everyone in the organization access to the value of wireless communication with pagers and two-way radios. Radios with DTMF keypads can place phone calls or pages anywhere there is coverage.

TALKBACK

The PageCenter offers the "talkback" feature to communicate with on-site mobile workers. For example, security guards can be accessible when away from their desk. They can be reached by simply placing a phone call to the PageCenter. Two-tone signaling allows users to be individually selected. The PageCenter answers the call and routes it to the security guard's two-way radio. Also, the guard can immediately initiate a phone call to report an emergency from their two-way radio (requires DTMF signaling).

GROUP CALL

The PageCenter has the capability to quickly send the same message to a predetermined group of pagers.

With "group call," teams of people can receive the same message without giving up the ability to receive individual pages or requiring multiple entries by the operator. The operator can perform simple front-panel programming of the PageCenter to change members of any group. There is no need to reprogram the pagers. This is a useful feature when multiple people need information quickly and accurately.

AUTOMATIC OPERATION

The PageCenter monitors eight inputs and will send a preprogrammed message to any pager or group when a closure to ground is detected.

Instantaneous and automatic notification of events, such as equipment failure, intrusion or security breaches, and monitoring machinery status, is supported through these eight inputs. Anything that provides a closure to ground can initiate automatic pages. For more complicated monitoring jobs, look at the Zetron Model 1550, which is compatible companion to the PageCenter through the TAP data input.

SERIAL INTERFACES

The PageCenter has two RS-232 data ports. The two ports can be used at the same time as keyboard, telephone and other data activities are present allowing for maximum flexibility. The ports support following the protocols:

- Telecator Alphanumeric Protocol (TAP) – This is the standard protocol used by alphanumeric entry devices.

- COMP1 – This is a simple computer protocol which sends carriage return delimited messages to a particular pager. It is useful for monitoring the serial alarm information from other devices
- COMP2 – This is a derivative of COMP1, but allows the pager number to be selected by the external device.

INTERNAL TRANSCEIVER

Field programmable frequency selection and jumper selectable two-watt or four-watt operation means this unit is quick to set-up. Economical and enough power for most on-site applications, the PageCenter can also be connected to an external, more powerful transmitter (if needed).

The built-in transceiver is designed for tomorrow's regulatory environment. A narrow band (12.5 kHz) version allows the PageCenter to operate on FCC channels not available to all. Not only does the PageCenter have a built-in transmitter, the receiver allows the PageCenter to operate on a shared channel basis and avoid harmful interference to other paging or communication systems.

SPECIFICATIONS

Encoder/Terminal general

Paging Format	POCSAG (tone, numeric, and alpha at 512,1200 or 2400 bps) Two-tone sequential signaling with group call support. Standard Motorola and GE code plans.
Squelch formats	CTCSS or carrier squelch
Serial port protocols	TAP, COMP2, COMP1
Pager database maximum size	1000 individual pagers
Max. page length	500 characters
Max. preprogrammed alarm message	40 characters
Max. number of pager groups	16
Max. number of pagers per group	75
LCD display size	20 characters X 2 lines
Speaker audio	1 watt maximum at <5% THD
Power supply	External 12V and 5V DC, 2A, DIN connector
Weight	3.5 lbs.
Temperature range	0° to +40°C
Antenna connection	BNC
External keyboard interface	Standard PS/2

Telephone interface	RJ-11 female, DTMF signaling
Alarm/data inputs	DB-15, 8 inputs, TTL voltage levels
Serial connections	2 DB-9

RF SECTION

Frequency bands	150-174 MHz (10 MHz no tune range, centered at 157 MHz) 450-470 MHz
RX channel spacing	25kHz (wideband) or 12.5kHz (narrowband) models available
Frequency Stability	5 ppm (wideband) 2.5 ppm (narrowband)
RX Sensitivity 12db SINAD	0.5µV (wideband) 0.35µV (narrowband)
RX Modulation acceptance	±5kHz (wideband) ±2.5kHz (narrowband)
RX Intermodulation	55dB
RX Image and IF rejection	55dB
RX Selectivity	55dB
TX power output	2 or 4 watts. Selected via internal jumper
Modulation limit	±4.5kHz or ±2.25kHz, programmable by channel
FM hum and noise	38dB or better
Spurious emissions	-52 dBc
Applicable Regulatory Standards	FCC Part 15, 22, 68, and 90 Industry Canada RSS Issue 5 and CS-03

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