MACKENZIE

FE-3S

Digital Page Stacker & Feedback Eliminator

Key Features:

- ■ **Stack and Play up to 16 pages**
- ■ **Record new pages while previous pages are playing back**
- ■ **4 minute total recording time**
- ■ **Repeat page mode**
- ■ **Delay between pages**
- ■ **Dry Loop/Loop start modes**
- ■ **Pre-Page tone**
- ■ **Priority bypass input**
- ■ **DTMF tone stripping**
- ■ **DTMF inhibitor function**

The increased sophistication of today's intercom and paging systems requires products that are easily integrated into a wide variety of applications. They must also provide increased intelligibility with better system clarity, vocal definition and reliability.

Mackenzie Laboratories continues to respond to these requirements with our newest product offering, the FE-3S. Designed for use in high traffic public address systems, the FE-3S, digital page stacker and feedback eliminator offers 4 minutes of audio storage with excellent audio clarity. Page stacking and record while play are key features of the FE-3S design. The unit is able to stack and play up to 16 pages while recording new pages at the same time.

Additionally, the FE-3S makes feedback through the paging system virtually impossible by opening the loop between the input microphone and speakers. This eliminates the potential for acoustic feedback while giving the user flexibility in the manner which pages are broadcast. Multiple operational modes, Dry or Loop Start, Page Repeat, Delay, Pre-Page Tone and Priority bypass features allow the FE-3S to be tailored to many paging applications.

The FE-3S is manufactured in the USA and available for immediate delivery.
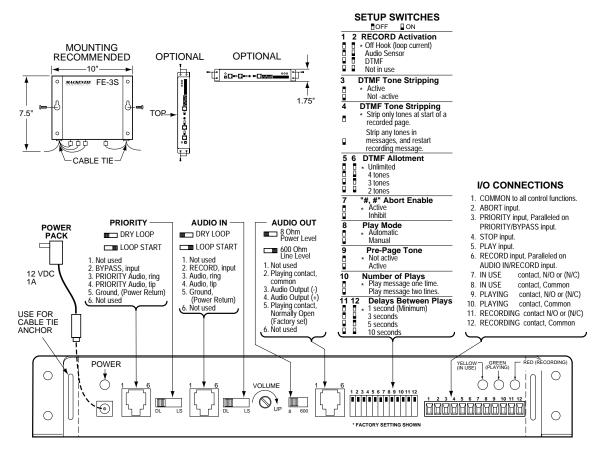
APPLICATIONS:

Airports

Arenas

Factories

Hotels

Stores

Warehouses

MACKENZIE - A PROUD TRADITION SINCE 1954

FE-3S

Digital Page Stacker & Feedback Eliminator

MOUNTING RECOMMENDED — 10" — 7.5" — TOP — CABLE TIE — OPTIONAL — OPTIONAL — 1.75"

SETUP SWITCHES
☐ OFF   ☐ ON

1 2	**RECORD Activation**	
	* Off Hook (loop current)	
	Audio Sensor	
	DTMF	
	Not in use	
3	**DTMF Tone Stripping**	
	* Active	
	Not -active	
4	**DTMF Tone Stripping**	
	* Strip only tones at start of a recorded page.	
	Strip any tones in messages, and restart recording message.	
5 6	**DTMF Allotment**	
	* Unlimited	
	4 tones	
	3 tones	
	2 tones	
7	**"#, #" Abort Enable**	
	* Active	
	Inhibit	
8	**Play Mode**	
	* Automatic	
	Manual	
9	**Pre-Page Tone**	
	* Not active	
	Active	
10	**Number of Plays**	
	* Play message one time.	
	Play message two times.	
11 12	**Delays Between Plays**	
	* 1 second (Minimum)	
	3 seconds	
	5 seconds	
	10 seconds	

I/O CONNECTIONS
1. COMMON to all control functions.
2. ABORT input.
3. PRIORITY input, Paralleled on PRIORITY/BYPASS input.
4. STOP input.
5. PLAY input.
6. RECORD input, Paralleled on AUDIO IN/RECORD input.
7. IN USE   contact, N/O or (N/C)
8. IN USE   contact, Common
9. PLAYING   contact, N/O or (N/C)
10. PLAYING   contact, Common
11. RECORDING contact N/O or (N/C)
12. RECORDING contact, Common

POWER PACK — 12 VDC 1A — USE FOR CABLE TIE ANCHOR

PRIORITY
☐ DRY LOOP
☐ LOOP START
1. Not used
2. BYPASS, input
3. PRIORITY Audio, ring
4. PRIORITY Audio, tip
5. Ground, (Power Return)
6. Not used

AUDIO IN
☐ DRY LOOP
☐ LOOP START
1. Not used
2. RECORD, input
3. Audio, ring
4. Audio, tip
5. Ground, (Power Return)
6. Not used

AUDIO OUT
☐ 8 Ohm Power Level
☐ 600 Ohm Line Level
1. Not used
2. Playing contact, common
3. Audio Output (-)
4. Audio Output (+)
5. Playing contact, Normally Open (Factory set)
6. Not used

POWER — 1 6 — DL LS — 1 6 — DL LS — VOLUME — UP — 8 600 — 1 6 — 1 2 3 4 5 6 7 8 9 10 11 12 — 1 2 3 4 5 6 7 8 9 10 11 12 — YELLOW (IN USE) — GREEN (PLAYING) — RED (RECORDING)

* FACTORY SETTING SHOWN

Specifications:

Audio Quality:
Performance:	12 bit, mono
Dynamic Range:	60dB
Frequency Response:	100 Hz to 6.8 kHz
THD:	<1%
Signal to Noise:	60dB

Audio Connections:
Page Input:	RJ12, 600ohm, transformer isolated
Priority Input:	RJ12, 600ohm, transformer isolated
Line/Power Output:	RJ12, adjustable, transformer isolated +4dB/600ohm OR 500mW/8hom

Audio Memory:
Type:	DRAM
Storage Time:	240 seconds

Status:
LED(s):	Power, In Use, Playing, and Recording

Control I/O:
Control Inputs:	Record, Play, Stop, Priority, Abort
Relay Outputs:	Record, Play, In Use
Interface:	12 position Euro-style terminal strip

Power:
Input Voltage:	12VDC power pack
Current:	1 amp
Connection:	2.5mm barrel, center positive
Fuse:	Internal, self reset

Mechanical:
Wall mountable chassis, rack mount option
10" wide x 6.75" deep x 1.5" high
4.5 lbs.
18 gauge cold rolled steel chassis
Texture coated paint process

Regulatory Agency Approvals:
FCC, Part 15, Class A
UL/CSA approval on external power pack

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE