



COMMUNICATIONS FOR TODAY ... AND TOMORROW.

DS100 Door Sentry & Emergency Alarm System

Submittal Package

as of 12/14/2022

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Features

- Steady or pulsating tone
- Tone Off switch with auto reset
- Modular design
- Open or closed circuit detection

Description

The DS100 is a zoned, audible-visual alarm-indicating system designed to monitor doors, windows, or any device that uses open or closed contact switches, including momentary emergency push buttons. Interruption or making of a circuit will cause the specific light indicator to latch on at the master panel and generate an alarm tone which may be silenced without canceling the visual signal. The visual signal can only be reset at the master.

The PK2019A Power and Control Unit provides power, control and signaling circuits, plus a normally open and a normally closed auxiliary contact. Using a PK2019A provides a full-form “C” dry contact. Screw terminals are provided for wire termination. The PK2019A Power & Control Unit is surface mount, and is enclosed in an extruded aluminum case.

Specifications

Dimensions: Refer to OH200-series housings and OF200-series frames in the IL312 Housings Reference Chart

Connections: Screw terminals

Transformer: 16 VAC, 30 VA

System Power: 24 VDC



DS100 Audible-Visual Annunciator Panel
(DS100/20 speaker panel, AM100/36 add-on panel
and OF202 frame)

Required Components

PK2019A Power and Control Unit
SS106 Transformer
OH200-series Flush Housing
OF200-series Frame

Features

- Automatic Tone Off reset
- Reliable and rugged design

Description

The IR019B Remote Tone Speaker provides remote tone annunciation when connected directly to a PK2019A Power and Control Unit, and in parallel with a TekTone® CM800-series or DS100-series Annunciator Panel.

The tone speaker features a momentary contact Tone Off button for tone silencing. Depressing the Tone Off button silences the tone at all IR019B locations. The Tone Off light remains illuminated while tone-silencing is enabled. When the emergency initiating device has been reset, the Tone Off will automatically reset.

Specifications

Dimensions:	4.5"H × 4.5"W (115 mm × 115 mm)
Finish:	Satin brushed stainless steel
Controls:	Individual replaceable push button with self-wiping contacts
Indicators:	28 volt red light
Speaker/Mic:	45-ohms, 2.5"
Connections:	Pigtails
Housing:	Standard dual-gang electrical box



IR019B Remote Tone Speaker

Required Components

CM800 Emergency Call System
or
DS100 Door Sentry & Emergency Alarm System

PK2019A Power and Control Unit
SS106 Transformer

Features

- General purpose power and control unit
- Three levels of tone volume

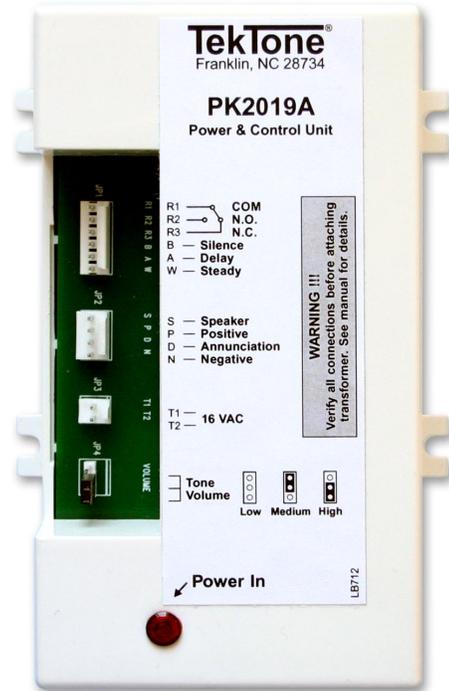
Description

The TekTone® PK2019A Power and Control Unit is a general purpose power and control unit used with the CM800 Emergency Call System and the DS100 Door Sentry & Emergency Alarm System.

The PK2019A provides tone signal, tone silencing, tone silenced indication, auxiliary signal relay, and 24 VDC for accessory device operation. The PK2019A also provides three levels of tone volume control.

Specifications

Dimensions:	5.5"H × 3.12"W × 2"D (140 mm × 80 mm × 51 mm)
Power:	16 VAC 30 VA max
Output:	1 Amp. maximum
Tone Speaker:	45 ohms (up to 3 in parallel)
Tone Off	0.04 Amp. (up to 3 in parallel)
Lamp:	
Connections:	Plug-in
Construction:	Flame retardant (UL® 94V-0) plastic



PK2019A Power and Control Unit

Required Components

CM800 Emergency Call System
or
DS100 Door Sentry & Emergency Alarm System

SS106 Transformer

Features

- Low voltage operation
- Reliable alternate power supply
- Integrated circuit design
- Easy installation

Description

The PK124K Battery Backup Kit provides continuous battery charging so that if power to system equipment is interrupted, standby operating power is provided for up to approximately 6 hours. (Time may vary depending on system size and usage.)

The PK124K kit includes a transformer, a battery charger and two batteries—all preinstalled in a 19-gauge cold-rolled steel housing. Knockouts are included on all sides except the lid, to allow connection of electrical conduit from any direction. In addition, the lid has a knockout which can be used to install an optional key lock. The enclosed single-gang electrical junction box is galvanized steel with a stainless steel cover plate.

TekTone systems supported by the PK124K include the DS100 Door Sentry & Emergency Alarm System, the CM800 Emergency Call System, Tek-ENTRY® Apartment Entry Systems, and the Tek-SAFE® Area of Rescue Assistance System.

Required Components

CM800 Emergency Call System
DS100 Door Sentry & Emergency Alarm System
Tek-ENTRY® Apartment Entry Systems
—or—
Tek-SAFE® Area of Rescue Assistance System

Optional Components

Mier BW3000 Offset Cam Lock, or equivalent



PK124K Battery Backup Kit

Specifications

Dimensions:	11.75"H × 11.75"W × 3.75"D (300 mm × 300 mm × 96 mm)
Connections:	Screw terminals (on PK124)
Construction:	19 gauge, cold-rolled steel
Transformer:	24 VAC, 30 VA (SS106)
Storage:	Two 12 VDC batteries (BA001)
Mounting:	Surface

Features

- Tappable at 8, 16, or 24 VAC
- UL® Listed Class 2 transformer
- Pre-stripped pigtailed for primary connections
- Screw terminals for secondary connections
- Surface mounted or via a standard 1/2" knockout on an electrical box

Description

TekTone's SS106 Class 2 Transformer offers a compact, easy-to-install low voltage AC power source for use with various TekTone® Tek-CARE® systems. The SS106 Transformer is a UL® Listed Class 2 transformer and will safely take itself offline when overheated.

The transformer is constructed for easy surface installation or in a standard 1/2" knockout, and may be used in plastic or metal boxes. Primary wire connections are made using the pre-stripped pigtailed and ground wire; secondary connections are made using screw terminals.

Optional Components

Various Tek-CARE Systems, including:

CM800, DS100, NC110, NC150, and NC200 Nurse Call Systems



SS106 Transformer

Specifications

120 VAC primary
8 VAC 20 VA, 16/24 VAC 30 VA secondary

Dimensions

Faceplate:	1.25"H × 5.875"W (31.8 mm × 149 mm)
Case width:	0.9375" (24 mm)
Case depth:	1.4375" (35 mm)
Latch opening:	1.375" (35 mm)

Note: The SS106 is found in the power and control assembly; IH151NK and the battery back-up assembly; PK124K.

NOTES:

1. For SF-series emergency switches, use single-gang ring, or single-gang ring and dual-gang box.
2. For LI-series dome lights, use dual-gang ring (or dual-gang ring and box).
3. For AM- and CM-series apartment panels, see specification sheets.
4. For IR300-series nurse call stations, use Steel City #3GC and #H3BD or exact equivalent.
5. For IR150B-series, use Steel City #3GC and #H3BD. If space is limited, use ARC-CO #2GBD and #3GC.
6. For IR150SS Station, use OH600 flush housing mounted horizontally.
7. The last two digits of frame and housing model numbers indicate the number of gangs (i.e., panel capacity). Exceptions: IH101, IH103, OH600, OH601.
8. Attach the IH103 mounting plate to a finished wall, single-gang box, dual-gang box or square masonry box.

Model #	IH101 back box (flush)	IH103 plate (flush)
IR103E	×	×
IR104E	×	×
IR105E	×	×
IR203E		×
IR204E		×
IR205E		×
IR207B	use standard dual-gang electrical box	

Dimension and Finish Chart—Housings and Frames

Flush Mount Housings					
Model#	Overall Width	Wall Cutout Width	Overall Height	Wall Cutout Height	Overall Depth
IH101	4"	4-1/4"	5-1/2"	5-3/4"	1-3/4"
IH103	4-9/16"	n/a	5-7/8"	n/a	1/16"
OH150	5-1/4"	4-1/2"	12-5/8"	11-5/8"	3-3/4"
OH191	4-3/8"	4-1/2"	17-1/8"	17-1/4"	3-1/2"
OH192	8-3/8"	8-1/2"	17-1/8"	17-1/4"	3-1/2"
OH193	12-3/8"	12-1/2"	17-1/8"	17-1/4"	3-1/2"
OH194	16-3/8"	16-1/2"	17-1/8"	17-1/4"	3-1/2"
OH201	5-3/8"	4-1/2"	16-7/8"	16-1/4"	3-7/8"
OH202	9-3/8"	8-1/2"	16-7/8"	16-1/4"	3-7/8"
OH203	13-3/8"	12-1/2"	16-7/8"	16-1/4"	3-7/8"
OH204	17-3/8"	16-1/2"	16-7/8"	16-1/4"	3-7/8"
OH600	4"	4-1/4"	10-3/16"	10-3/8"	1-13/16"
OH601	4"	4-1/4"	16-1/16"	16-1/4"	1-13/16"

Flush Mount Frames		
Model #	Width	Wall Cutout
OF191	6-1/4"	-
OF192	10-1/4"	-
OF193	14-1/4"	-
OF194	18-1/4"	-
	Height:	19" (overall)
	Depth:	7/8"
OF201	6-1/4"	4-1/2"
OF202	10-1/4"	8-1/2"
OF203	14-1/4"	12-1/2"
OF204	18-1/4"	16-1/2"
	Height:	17-3/4" (overall)
	Cutout:	15-7/8"
	Depth:	2-1/2"

Surface Mount Frames			
Model #	Width	Height	Depth
OF191S	6-1/4"	19"	2-1/4"
OF192S	10-1/4"	19"	2-1/4"
OF193S	14-1/4"	19"	2-1/4"
OF194S	18-1/4"	19"	2-1/4"
OF195S	22-1/4"	19"	2-1/4"