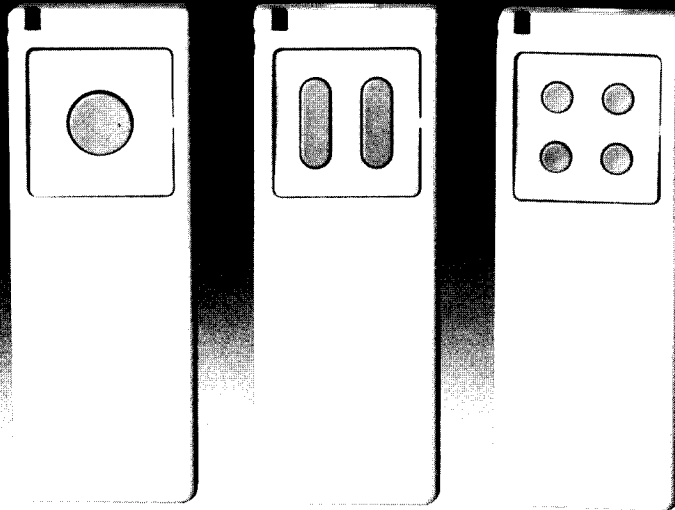


# Linear

A NORTEK COMPANY

## 21<sup>ST</sup> SENTRY

## Hand-held Transmitters TX-91/TX-92/TX-94



## TX-91, TX-92, TX-94 HAND-HELD TRANSMITTERS

- **One-, Two- and Four-Channel Transmitters**
- **Unique Top Button Actuator**
- **Test/Operate LED**
- **Pocket Clip and Belt Clip Supplied with Transmitter**
- **Over 16,000,000 Codes**
- **Lithium Battery Powered, Battery Supplied**

When developing a new hand-held transmitter, Linear established eight design criteria: a wide range of transmitter choices, convenient operation, range, reliability, overall size, actuator button feel, and a convenient method of carrying the transmitter.

The TX-Series of hand-held transmitters are available in one-, two- and four-channel configurations to meet your individual system needs. An actuator switch has been added to the top of the TX transmitter providing an additional point for transmitter activation. If the top switch is not needed for operation, then a special cap covers the switch location. TX transmitters are programmed into the 21st Sentry system on an individual channel basis. Typical applications for the transmitters include fire, panic, emergency and intrusion. A test/operate LED supplements the positive tactile feel of the transmitter actuator buttons to verify operation whenever any actuator switch is pressed.

Range is a critical consideration. This microprocessor based transmitter

design incorporates Linear's new SX transmission format which translates into 3,500 feet of measured range.

Superior reliability is achieved by the transmission technique which includes over 16,000,000 codes and a shorter overall transmission speed. Long life lithium batteries which are included with the transmitters provide up to five years of battery life. Low battery reporting is a standard feature of the TX-Series of transmitters.

Hand-held transmitter size has always been a problem. Most are bulky, cumbersome, and difficult to carry or hold in the hand. The TX-Series of hand-held transmitters eliminates this problem. The slim design of the transmitter fits nicely in the hand and is easy to carry. The overall size of the transmitter is 4.2 inches long by 1.6 inches wide by 0.8 inches high.

Carrying a hand-held transmitter is a major problem. You put it in your pocket and inadvertently trigger a nuisance alarm. You put it in a convenient place only to be unable to find it when it is really needed. Linear has solved these problems by including not only a pocket clip, but also a belt clip with all TX-Series transmitters.

The Linear TX transmitters. Featuring a wide range of transmitter choices, convenient, versatile and simple operation, 3,500 feet of range, a compact size and all of the options necessary to customize the transmitter to your individual system requirements.

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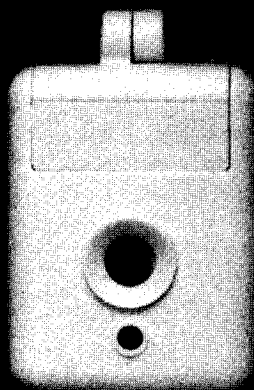
2055 Corte Del Nogal, Carlsbad, CA 92009  
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CA 800/392-0123 · FAX 619/438-7043

**General Specifications:**

<b>Size:</b>	4.2" Long x 1.6" Wide x 0.8" High (107mm x 41mm x 20mm)
<b>Power:</b>	Two 3V DL-2032 Lithium Batteries (supplied )
<b>Battery Life:</b>	Up to 5 Years
<b>Operating Temperature:</b>	32 to 140 degrees F (0 to 60 degrees C)
<b>Actuation Indication:</b>	LED indicator and tactile feedback
<b>Accessories:</b>	Pocket Clip and belt clip (supplied)
<b>Frequency:</b>	303.875MHz, $\pm$ 125KHz
<b>Measured Range:</b>	3,500 feet with CP-90 Control Panel
<b>Number of Codes:</b>	16,777,216
<b>Code Setting Method:</b>	Factory programmed

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SHOWN ACTUAL SIZE

## LMT-1/303 PENDANT TRANSMITTER

- **Small, Lightweight Design**
- **LED Activation Indicator**
- **Battery Supplied**
- **Over 1,000,000 Codes, Factory Programmed**
- **Water-resistant Clamshell Available**
- **Can be Used as a Remote Arm/Disarm Transmitter**

No security system is complete without some portable means of reporting an emergency or panic situation. The LMT-1/303 satisfies this requirement on the 21st Sentry system. This transmitter is one of the smallest wireless devices available in the security industry, measuring just 1.875 inches by 1.40 inches by .625 inches.

The LMT-1/303's adaptability is extensive. It can be attached to a key chain, tucked conveniently inside a pocket or purse, or worn like a pendant around the neck. There is even a plastic clamshell, the WET-2, which makes the LMT-1/303 water-resistant.

The LMT-1/303 pendant incorporates Linear's popular megacode transmission format. With over 1,000,000 factory programmed codes, the potential for code duplication is virtually eliminated. When incorporated into the 21st Sentry system, the estimated range of the LMT-1/303 is 600 feet. The pendant is pow-

ered by a readily available GP-23, 12 VDC, alkaline battery. The battery is supplied with the pendant. A battery test/operation LED verifies battery strength as well as operation of the pendant.

### General Specifications

**Size:**

1.875" Long x 1.40" Wide x .625" High  
(56 mm x 35 mm x 16 mm)

**Power:**

12 volt, GP-23 battery (supplied with pendant)

**Battery Life:**

Greater than 6,000 2-second operations

**Operating Temperature:**

32 to 120 degrees F  
( 0 to 49 degrees C)

**Frequency:**

303.875MHz, ±125KHz

**Measured Range:**

600 feet with CP-90 control panel

**Number of Codes:**

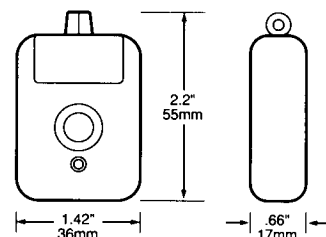
1,048,576

**Code Setting Method:**

Factory programmed

**Certification:**

FCC



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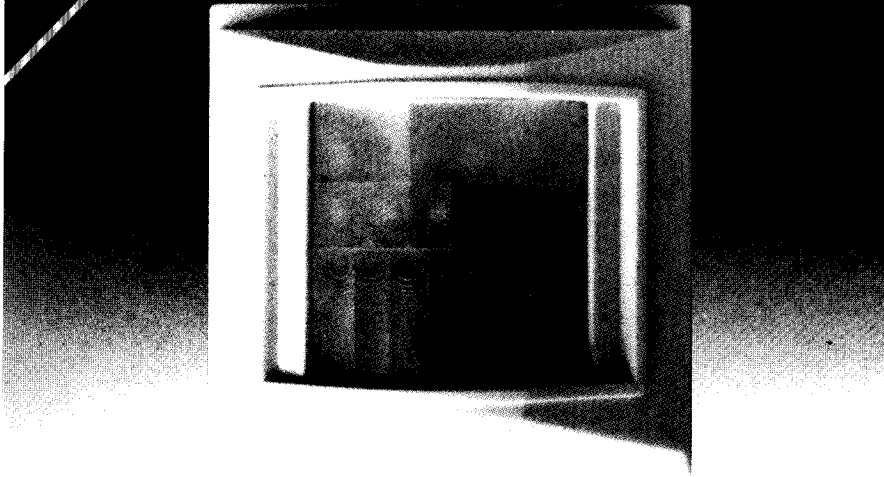
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**21<sup>ST</sup> SENTRY** SUPERVISED WIRELESS PASSIVE INFRARED DETECTOR **50S40A**



## **50S40A** **SUPERVISED WIRELESS PASSIVE INFRARED DETECTOR**

- **Dual Element Pyroelectric Sensor**
- **Phase Discrimination and Pulse Count**
- **Shielded Detector Amplifier for RFI and EMI Immunity**
- **Built in Four Minute Delay between Transmissions**
- **High Density and Long Range Lens Supplied**
- **Fully Supervised**
- **Super Bright Walk Test LED**
- **Battery Supplied**

The 50S40A supervised passive infrared detector incorporates superior detection capability. Nuisance alarm protection is provided by a unique phase discriminator/pulse count circuit that requires one positive and one negative zone entry to actuate an alarm. Superior shielding of the dual element pyroelectric sensor and its associated electronics further reduces the potential for nuisance alarms.

Couple superior detection with Linear's supervised RF format, and this translates to an open air range of 600 feet with the 21st Sentry control panel, over 65,000 distinct codes and full device supervision. The PIR transmits alarm, low battery and status reports.

Power drain is always a problem for wireless PIR's. To increase the life expectancy of the 9-volt battery supplied with the 50S40A, Linear has developed a transmitter time delay. Without a delay the PIR will constantly be in

the transmit mode in high traffic areas. The result is a dramatic reduction in anticipated battery life. The 50S40A includes a four minute timer to delay subsequent alarm transmissions. The result is a dramatic increase in anticipated battery life.

To provide maximum versatility the 50S40A is supplied with two lens. For area detection the PIR can be set up with a wide angle lens featuring 16 twin beam zones. For corridors a long range lens with 3 twin beams can be easily interchanged with the area lens. Detection patterns are 40 feet by 40 feet for the area lens, and 70 feet by 7 feet for the long range lens. To allow you to customize the 50S40A's detection area, a zone blocking kit consisting of a special, die-cut, adhesive, stick-on material is supplied with each PIR.

The 50S40A can be either wall or corner mounted. To pinpoint the area of detection the 50S40A includes a  $\pm 10$  degree horizontal adjustment as well as a +5 to -20 degree vertical adjustment. An extra bright LED is incorporated to facilitate walk testing of the unit.

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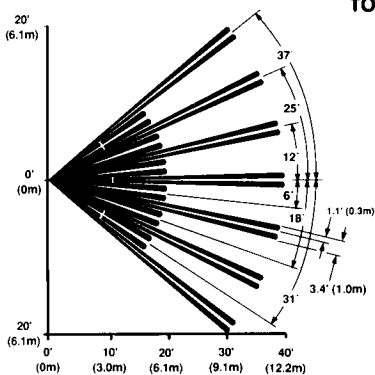
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## General Specifications:

<b>Sensor Type:</b>	Passive Infrared	<b>Vertical Adjustment:</b>	+5 to -20 degrees
<b>Detector:</b>	Dual element pyro electric	<b>Mounting:</b>	Screw Mount to Wall or Corner
<b>Lens:</b>	Two interchangeable Fresnel type lens	<b>Power:</b>	9V NEDA 1604 battery (supplied with the unit)
<b>Detection Pattern:</b>		<b>Battery Life:</b>	8 to 12 months
<b>High Density</b>	40 feet x 40 feet (12.2 meters x 12.2 meters)	<b>Operating Temperature:</b>	32 to 120 degrees F (performance reduced above 95 degrees F) ( 0 to 49 degrees C)
<b>Long Range</b>	70 feet x 7 feet (21.3 meters x 2.1 meters)	<b>Frequency:</b>	303.875MHz ±125KHz
<b>Detection Zones:</b>		<b>Measured Range:</b>	600 feet with CP-90 control panel
<b>High Density</b>	16 twin beams, 32 total	<b>Number of Codes:</b>	65,536
<b>Long Range</b>	3 twin beams, 6 total	<b>Code Setting Method:</b>	Dip Switches
<b>Zone Block:</b>	Die-cut adhesive stick-ons	<b>Certification:</b>	FCC
<b>Walk Test Indicator:</b>	Extra bright LED	<b>Size:</b>	3 <sup>11</sup> / <sub>16</sub> in. high x 3 <sup>11</sup> / <sub>16</sub> in. wide x 2 <sup>1</sup> / <sub>4</sub> in. deep (94mm x 94mm x 57mm)
<b>Phase Discriminator/ Pulse Count:</b>	Requires one positive and one negative zone entry within ten seconds to activate an alarm		
<b>Horizontal Adjustment:</b>	±10 degrees		

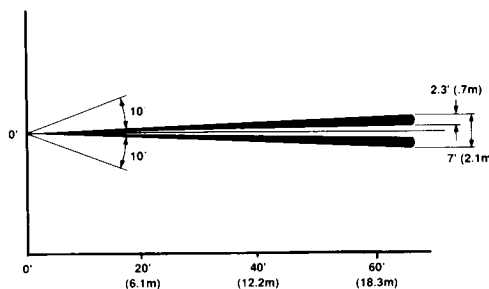
## Detection Pattern:

### HIGH DENSITY

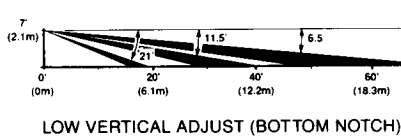
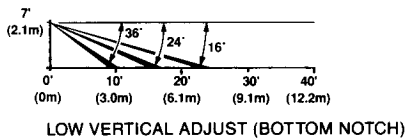
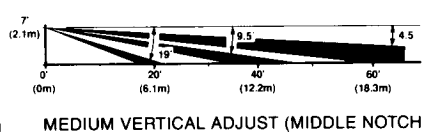
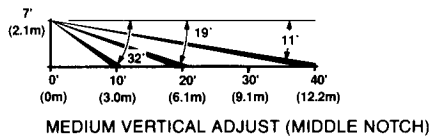
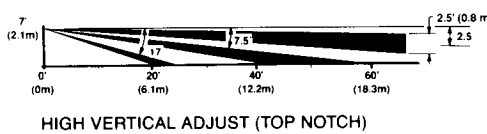
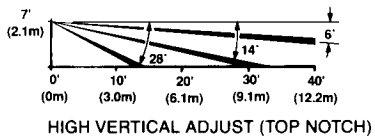


### LONG RANGE

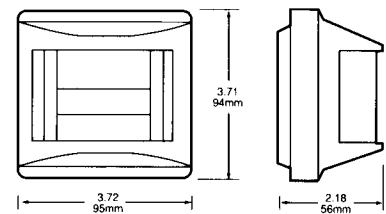
#### TOP VIEW



#### SIDE VIEWS



## Dimensions:



# Linear

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## 21<sup>ST</sup> SENTRY

## Wireless Photoelectric Smoke Detector

## 371



### 371

## WIRELESS PHOTOELECTRIC SMOKE DETECTOR

- **Photoelectric Smoke Detector**
- **Built-in 85dB Sounder**
- **Audible Low Battery Alarm**
- **Fully Supervised**
- **Batteries Supplied**
- **Over 64,000 Codes**

The Linear 371 smoke detector adds another important dimension to the 21st Sentry system. Photoelectric smoke detectors, utilizing the latest in forward light scattering techniques, are the detector of choice by most professionals for most residential installations. The Linear 371 photoelectric smoke detector uses this technology. The 371 combines an ESL smoke detector with a Linear supervised transmitter.

The smoke detector section includes an integral LED which flashes periodically to visually verify device operation. To announce an alarm, the LED will illuminate at a steady rate. Audible alarm annunciation is achieved by the built-in 85dB sounder. Upon detection of a low battery condition, the integral

sounder will beep approximately once every 14 seconds for a minimum period of seven days.

Linear's supervised transmission format provides an open air range of 600 feet with the 21st Sentry control panel, over 65,000 code selections, and full device supervision. The 371 transmits alarm, restore, low battery, and hourly status reports to the 21st Sentry control panel.

The Linear 371 is powered by two 9-Volt NEDA 1604 alkaline batteries which are supplied with the detector. One battery is used to power the smoke detector section, while the second battery is used exclusively for the supervised transmitter section.

The complete package is FCC certified and is UL listed for smoke detection as a battery operated wireless reporting device.

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**Smoke Detector Specifications**

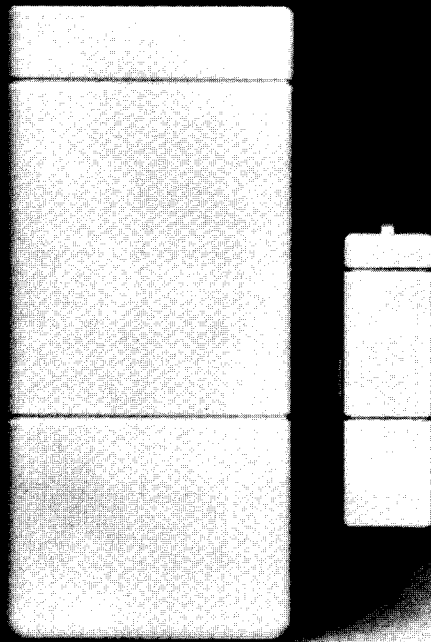
<b>Size:</b>	6.1" Diameter x 1.84" High (155mm x 46 mm)
<b>Power:</b>	Two 9V NEDA 1604 alkaline batteries (supplied with unit) One battery for smoke detector One battery for transmitter
<b>Battery Life:</b>	Approximately one year
<b>Nominal Sensitivity:</b>	2.5%/ft obscuration (gray smoke)
<b>Operating Temperature:</b>	32 to 120 degrees F ( 0 to 49 degrees C)
<b>Operating Humidity Range:</b>	0 to 85% RH
<b>Horn Output:</b>	85dB at 10 feet
<b>Indicator:</b>	
	<b>Standby:</b> Flashing
	<b>Alarm:</b> Steady
<b>Low Battery Signal:</b>	One horn blip every 14 seconds nominal for a minimum of 7 days
<b>Test Switch:</b>	Simulates gray smoke density of not greater than 6%/foot
<b>Color:</b>	Off-White

**Transmitter Specifications**

<b>Frequency:</b>	303.875MHz $\pm$ 125KHz
<b>Measured Range:</b>	600 feet with CP-90 control panel
<b>Number of Codes:</b>	65,536
<b>Code Setting Method:</b>	Dip Switches
<b>Transmissions:</b>	Alarm, Restore, Status, Low Battery
<b>Listings/Certifications:</b>	U L, FCC

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SHOWN ACTUAL SIZE

## **T-90** **SUPERVISED WIRELESS DOOR/WINDOW TRANSMITTER**

- **Compact, Attractive Styling**
- **Fully Supervised**
- **Tamper Switch**
- **Test Switch**
- **Two Selectable Internal Reed Switches**
- **External Contact Inputs**
- **External Contact Type Selectable**
- **Lithium Battery Powered (Battery Supplied)**
- **Fast/Slow External Contact Response**
- **Retransmission Delay**

When developing the new door/window transmitter, Linear established five specific design goals: increased reliability, increased versatility, increased range, improved styling, and ease of installation. The T-90 door/window transmitter delivers on all five of these goals.

**Reliability?** Consider over 16,000,000 factory programmed codes. Consider off the shelf, lithium batteries, supplied with the T-90, with a life expectancy of over 5 years. And by removing a special insert you can add larger lithium cells to increase the battery life to over 7 years. Consider Linear's all-new SX data transmission format which provides more information with a shorter total transmission time. The T-90 is fully supervised and transmits alarm, low battery and tamper, as well as device status.

**Versatility?** The T-90 transmitter includes two internal reed switches. A multi-position magnet is supplied with the T-90 to assure proper switch/magnet alignment. The T-90 includes terminals for the connection of either normally

open or normally closed external devices. It's even possible to use external devices when utilizing the internal reed switch configuration. A fast/slow response time switch allows you to select the proper response time for your external devices. The T-90 includes a test switch. If the T-90 cover is removed a built-in tamper switch will immediately report a trouble condition to the 21st Sentry control panel.

**Range?** How about 3,500 feet of free air transmission range when used with the 21st Sentry control panel. Up till now, devices with 1,000 feet of free air range were considered superior. The T-90 makes these devices ordinary.

**Styling?** It's nice to have a transmitter that provides superior range, is versatile and reliable. But what about styling? Linear has taken this technology and packaged it in an attractive, compact, slim, pleasing case. The T-90 case measures only about 3.3 inches long, by 1.5 inches wide, by .88 inches thin. And the color is cool gray to match most decors.

**Installation?** A snap with the T-90. A plastic base plate is mounted directly to the wall. The transmitter section then snaps and locks into place on this base plate. To prevent unauthorized removal of the transmitter from its base you must remove the transmitter's cover and defeat the integral locking mechanism.

The Linear T-90 door/window transmitter. Combining versatility, reliability, range, and ease of installation into an attractive, state-of-the-art RF transmitting device. Designed and built with the latest in surface mount technology. Microprocessor based. Randomly coded with one of over 16,000,000 codes. Transmission optimized to provide maximum allowable RF output power.

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**General Specifications:**

<b>Size:</b>	3.3" Long x 1.5" Wide x .88" High (84mm x 38mm x 22mm)
<b>Mounting:</b>	Snaps into mounting plate supplied with the transmitter
<b>Power:</b>	Two 3V DL-2032 Lithium Batteries (supplied) Optional Two 3V DL-2450 Lithium Batteries for extended life
<b>Battery Life:</b>	Up to 5 Years with DL-2032 batteries Up to 7 Years with DL-2450 batteries
<b>Operating Temperature:</b>	32 to 120 degrees F ( 0 to 49 degrees C)
<b>Frequency:</b>	303.875MHz, $\pm$ 125KHz
<b>Measured Range:</b>	3500 feet with CP-90 Control Panel
<b>Number of Codes:</b>	16,777,216
<b>Code Setting Method:</b>	Factory Programmed
<b>Mode Switch Settings:</b>	
N/O or N/C	Dip switch selectable
Fast or Slow Response	Dip switch selectable
Glass Break Selection	Dip switch selectable
Retransmission delay	Dip switch selectable
<b>Jumper Selection:</b>	
	Left Reed Switch
	Right Reed Switch
	Reed Switches Disabled

**Dimensions:**

The T-90 is supplied with a multi-position magnet, which is shown here both in its normally compressed and fully extended positions.

