# REDI MEASURE®
## by REDINGTON

Since 1961

# Linear Measuring Wheels

LIFETIME WARRANTY

## Features

These medium-duty linear measuring wheels are used for estimating distances on smooth surfaces indoors and out. They feature a 5-figure display with bold .20" high numerals, and are capable of counting to 10000 feet or 1000 meters, depending on the model chosen.  Their lightweight design eases handling, and the reset button is protected by a raised collar.  The bright orange color increases visibility.  Single and dual wheel models are available, as are multi-position straight or curved handles.  Component parts are sold separately for quick field repairs. These wheels are widely used by contractors, utilities, accident investigators, real estate agents, and landscapers.

### Single Wheel

### Dual Wheel

## Specifications

| | |
|---|---|
| **Figures** | 5 figures, .20" high |
| **Reset** | Push-button |
| **Warranty** | Lifetime |
| **Weight** | 1.2 lbs. |
| **Extended Size** | 44"(curved handle), 39"(straight handle) |
| **Storage Size** | 28"(curved handle), 17"(straight handle) |
| **Wheel Size** | Wheels are identified by their circumference |
| | 1 ft. wheel has a diameter of ~3.8 in. |
| | 30 cm. wheel has a diameter of ~9.5 cm. |

## Specifications

| | |
|---|---|
| **Figures** | 5 figures, .20" high |
| **Reset** | Push-button |
| **Warranty** | Lifetime |
| **Weight** | 1.4 lbs. |
| **Extended Size** | 44" (curved handle), 39" (straight handle) |
| **Storage Size** | 28" (curved handle), 17" (straight handle) |
| **Wheel Size** | Wheels are identified by their circumference. |
| | 1 ft. wheel has a diameter of ~3.8 in. |
| | 30 cm. wheel has a diameter of ~9.5 cm. |

| Models | Description |
|---|---|
| **11-0735** | 1 ft., 9999 ft.11 in., straight handle |
| **13-0735** | 1 ft., 9999 ft.11 in., curved handle |
| **15-0735** | 1 ft., 9999.9 ft., straight handle |
| **17-0735** | 1 ft., 9999.9 ft., curved handle |
| | |
| **11-0725** | 30 cm., 999.99 m, straight handle |
| **13-0725** | 30 cm., 999.99 m, curved handle |

| Models | Description |
|---|---|
| **12-0735** | 1 ft., 9999 ft.11 in., straight handle |
| **14-0735** | 1 ft., 9999 ft.11 in., curved handle |
| **16-0735** | 1 ft., 9999.9 ft., straight handle |
| **18-0735** | 1 ft., 9999.9 ft., curved handle |
| | |
| **12-0725** | 30 cm., 999.99 m, straight handle |
| **14-0725** | 30 cm., 999.99 m, curved handle |

### Features

These sturdy multi-purpose measuring wheels are best suited for quick and easy measuring over a variety of surfaces. They feature a 5-figure display with bold .20" high numerals and are capable of counting to 10,000 feet or meters, depending on the model chosen. Their lightweight design eases handling, and the reset button is protected by a raised collar. These models are available with multi-position straight or curved handles. Component parts are sold separately for quick field repairs. These units are widely used for estimating by contractors, accident investigators, landscapers, surveyors, real estate agents, and farmers.

### Features

These heavy-duty measuring wheels are best suited for outdoor use, recording long distances over a variety of surfaces, including rough terrain. Their lightweight design eases handling and reduces fatigue. They are capable of counting to 100,000 feet or meters depending on the model chosen. These "In-line" models are available with 3 ft., 4 ft., and 1 meter circumference wheels. Component parts are sold separately for quick field repairs. The bright orange wheel enhances visibility, and the fold down handle reduces storage space. These models are widely used for estimating by contractors, agriculturalists, surveyors and landscapers.

### Specifications

| | |
|---|---|
| **Figures** | 5 figures, .20" high |
| **Reset** | Push-button |
| **Warranty** | Lifetime |
| **Weight** | 1.9 lbs. |
| **Extended Size** | 48" (curved handle), 43" (straight handle) |
| **Storage Size** | 32" (curved handle), 21" (straight handle) |
| **Wheel Size** | Wheels are identified by their circumference. |
| |   3 ft. wheel has a diameter of ~11.5 in. |
| |   1 m. wheel has a diameter of ~32 cm. |

### Specifications

| | |
|---|---|
| **Figures** | 5 figures, .19" high |
| **Reset** | Rotary knob |
| **Warranty** | Lifetime |
| **Weight** | 3.6 lbs. with stand |
| | 3.0 lbs. without stand (3 ft. or 1 m. models only) |
| **Extended Size** | 40" |
| **Storage Size** | 3 ft. & 1 m: 26"; 4 ft: 24" |
| **Wheel Size** | Wheels are identified by their circumference. |
| |   4 ft. wheel has a diameter of ~15.3 in. |
| |   3 ft. wheel has a diameter of ~11.5 in. |
| |   1 m. wheel has a diameter of ~32 cm. |

### Models     Description

| Models | Description |
|---|---|
| **11-0765** | 3 ft., 9999 ft.11 in., curved handle |
| **12-0765** | 3 ft., 9999 ft.11 in., straight handle |
| **13-0765** | 3 ft., 9999.9 ft., curved handle |
| **14-0765** | 3 ft., 9999.9 ft., straight handle |
| **11-0755** | 1 m., 9999.9 m., curved handle |
| **12-0755** | 1 m., 9999.9 m., straight handle |
| **200700-065s** | Metal Stand & Hardware Kit (for 0755 & 0765) |

### Models     Description

| Models | Description |
|---|---|
| **11-0795** | 4 ft., 99999 ft., curved handle, with stand |
| **12-0795** | 4 ft., 99999 ft., curved handle, dual counter, with stand |
| **15-0795** | 3 ft., 99999 ft., curved handle, without stand |
| **17-0795** | 3 ft., 99999 ft., curved handle, with stand |
| **14-0795** | 1 m., 99999 m., curved handle, without stand |
| **16-0795** | 1 m., 99999 m., curved handle, with stand |

## Get Started Package

Our "Getting Started Package" is an easy way to get set up as an authorized re-seller of our Measuring Wheels. The package comes with a variety of Measuring Wheels (tailored to meet your specific requirements), a display rack, and product literature. Call your sales representative for more information

- Features 5 of the Most Popular Redi-Measure Wheels

- Free Display and Literature

- Lifetime Warranty

- Free Freight

Call your sales representative for more details on getting set up as a Measuring Wheel Distributor.

## Carrying Cases

Protect your measuring wheel with a handy carrying case. Carrying Cases are available for all models of the Redi-Measure measuring wheels. Durable black measuring wheel carrying cases with shoulder strap.

| Models | Description |
|--------|-------------|
| **1886-003s** | For 3 ft or 1 meter with curved handle |
| **1886-004s** | For 3 ft or 1 meter with straight handle and 3 ft or 1 meter inline without stand |
| **1886-005s** | For 4 ft curved handle with stand and, 3 ft or 1 meter inline with stand |

## Hand Tallys

A 4 figure, hand-held, desk mounted, or electronic reset counter with push-button actuator. Electronic Model E6 is completely sealed and suitable for outdoor use. These Tallys are a convenient way to count inventory, attendance, or traffic..

| Models | Description |
|--------|-------------|
| **12-1804** | Mechanical Hand Tally |
| **13-1804** | Mechanical Desk Tally |
| **E6-1804** | Electronic Ring Tally |

## Spare Parts

All of the component parts for our Measuring Wheels are sold separately to replace damaged parts or to keep on hand for quick field repairs. Contact your sales representative for the correct part number for the part you are looking for.

### LIFETIME WARRANTY

REDINGTON COUNTERS, INC. WARRANTS THAT ITS REDI-MEASURE WHEELS WILL BE FREE FROM DEFECTS RELATED TO MATERIALS AND/OR WORKMANSHIP FOR THE LIFE OF THE PRODUCT.

WITHIN THIS WARRANTY PERIOD, REDINGTON COUNTERS, INC. WILL REPAIR OR REPLACE SUCH PRODUCTS RETURNED TO REDINGTON COUNTERS, INC., FREIGHT PREPAID, THAT ARE DETERMINED BY REDINGTON COUNTERS, INC. TO BE DEFECTIVE. NO PRODUCTS SHALL BE RETURNED TO REDINGTON COUNTERS, INC. WITHOUT REDINGTON COUNTERS, INC. PRIOR CONSENT.

**THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SHALL NOT APPLY TO ANY PRODUCT WHICH HAS BEEN SUBJECT TO ALTERATION, MISUSE, ABUSE, NEGLIGENCE, OR ACCIDENT; IN NO EVENT SHALL REDINGTON COUNTERS, INC. BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES.**

**REDINGTON**
*Counters, Hour Meters, Controllers, Indicators*
PO Box 608, 130 Addison Rd., Windsor, CT 06095
Phone: (860) 688-6205     Fax: (860) 688-1591

## Description

The Redington Model 9300-HTK hand tachometer kit utilizes state of the art technology at an affordable cost. Simple to use… push the measurement button to record the speed. The tachometer can be used for contact or non-contact measurement on rotating machinery or surface speed. The 9300-HTK can indicate RPM or rotational speed, length measurement, meters, yards, or feet per minute. The photoelectric probe is used with reflective tape to detect rotating objects. The accessory adaptor with pointed tip can be added for contact measurement or wheels can be used for surface speed measurement.

## Features

- Combination unit - photo and contact
- Laser sighting operating range up to 40.0" [1000mm]
- Auto ranging - fixed decimal
- Tripod mounting bushing
- Low battery indicator
- Max / min / avg
- 40 points of memory
- Carrying case included

- 9V battery
- Instruction manual
- Certificate of calibration
- Cone adapter
- Funnel adapter
- Contact adapter
- Master wheel 3.94" [100mm]
- Reflective tape 0.59" x 20.67" [15mm x 525mm]

## Specifications

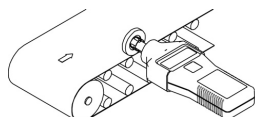| | | | |
|---|---|---|---|
| **Rotation speed (non-contact):** | 6.0 to 99999 RPM (rev/min) | **Resolution:** | 6.0 to 9999.9 RPM : 0.1 RPM |
| **Rotation speed (contact):** | 6.0 to 25000 (rev/min) | | 10000 to 99999 RPM : 1 RPM |
| **Surface speed (contact):** | 0.6 to 2500.0 M/M (m/min) | **Response time:** | 1 second |
| | 0.7 to 2734.0 Y/M (yard/min) | **Operating temperature:** | 32°F to +122°F [+0°C to +50°C] |
| | 23.6 to 98425 I/M (inch/min) | **Auto power off:** | Automatically after approx. 30 second |
| | 2.0 to 8202.1 F/M (feet/min) | **Battery type:** | 9V (006P, IEC6F22, NEDA1604) |
| **Length (contact):** | 0.1 to 9999.9 m (meter) | **Dimensions:** | 5.79" H x 1.93" W x 1.14" D [147mm x |
| | 0.1 to 10936 YD (yard) | | 49mm x 29mm] |
| | 0.3 32808 FT (feet) | **Weight:** | 3.4oz [95g] (without battery) |
| **Accuracy:** | 6.0 to 5999.9 RPM: ± 0.01% and ± 1 digit | | Contact adaptor: 1.8oz [50g] |
| | 5999.9 to 99999 RPM: ± 0.05% & ± 1 digit | **Total number of revolutions:** | 1 to 99999 REV (rev) |
| | Surface speed, length 0.5% and ± 1 digit | **Measuring distance:** | 40" [100 cm] |
| **Detection:** | Laser diode | **Warranty:** | 1 year |
| | | **Agency approvals:** | RoHS, CE Compliant |

## Models    Description

**9300-HTK**    Hand Tachometer Kit: includes Hand Tachometer, 9V battery, instruction manual, certificate of calibration, cone adapter, funnel adapter, contact adapter, master wheel, reflective tape, and carrying case
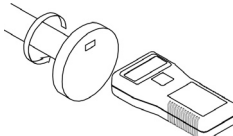
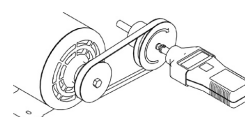\*    Item in bold is normally in factory stock.

## Applications

| Conveyor line speed | Speed of rotating objects | Check motor speeds |
|---|---|---|
|  |  |  |

*(Images are 50% actual size)*

9930-IRT                    9952-IRT                    9975-IRT

## Description

The Redington Model 99 line of non-contact thermometers use the latest infrared measuring technologies housed in rugged and ergonomic designs. These high performance measuring instruments feature laser sighting, backlight LCD displays, and are available with some of the highest distance to spot ratios in the industry. With ultra low power consumption and available data storage, the Model 99 line provides extended measuring reliability for a variety of applications.

## Features

- Rugged and ergonomic design
- Ultra low power consumption mode
- Backlit LCD display
- °C or °F selectable
- Laser sighting ON/OFF
- 9V battery included
- CE & RoHS Compliant

## Options

- Adjustable emissivity from 0.1 to 1.00 in 0.01 steps
- High distance to spot ratios
- Electronic trigger lock
- Temperature data storage
- Available alarms

## Models        Description

**9930-IRT**     Standard non-contact IRT kit - includes 9V battery, instruction manual, and certificate of calibration
**9952-IRT**     Professional non-contact IRT kit - includes 9V battery, instruction manual, certificate of calibration, and reinforced holster case
**9975-IRT**     High Performance HDS non-contact IRT kit - includes 9V battery, instruction manual, certificate of calibration, & heavy-duty carrying case
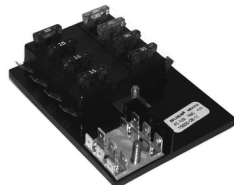
\*     All Items in bold are normally in factory stock.

## Applications

Semiconductor Manufacturing     Circuit Terminal Testing     Electrical Troubleshooting     HVAC Inspection     Auto Repair & Maintenance
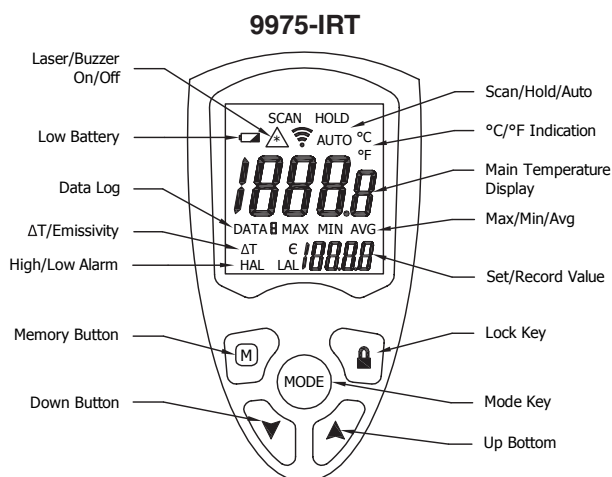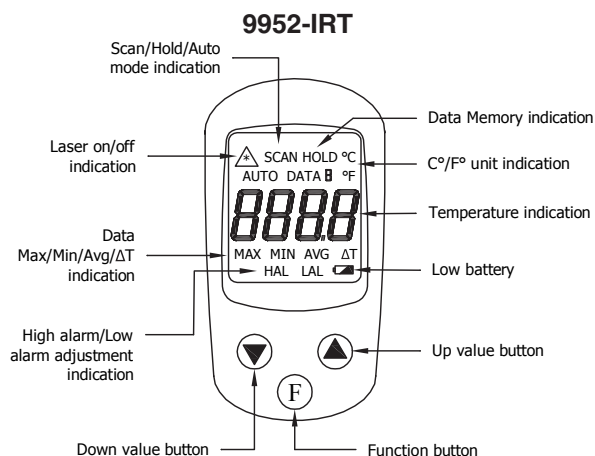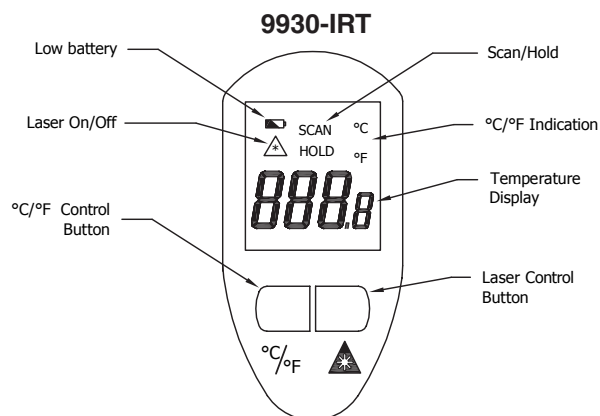
## Specifications

| SPECIFICATIONS | 9930-IRT | 9952-IRT | 9975-IRT |
|---|---|---|---|
| Distance/Spot Ratio | 8:1 | 12:1 | 50:1 |
| Temperature Range | -4 ~ 605°F (-20 ~ 320℃) | -25 ~ 999°F (-32 ~ 535℃) | -25.6 ~ 2373°F (-32~ 1300℃) |
| Accuracy (Assumes Operation Ambient Temperature of 25°C/77°F) | ±2% of reading or ±3°F whichever is greater | ±5°F (±3℃) From -25 ~ -4°F (-32 ~ -20℃) ±3°F (±2℃) From -4 ~ 212°F (-20 ~ -100℃) ±2% From 212 ~ 999°F (100 ~ 535℃) | ±5°F (±3℃) -25.6 ~ -4°F (-32 ~ -20℃) ±3°F (±2℃) -4 ~ 212°F (-20 ~ 100℃) Above 212°F (100 ℃): ±2% |
| Thermopile | 5~14μm | 5~14μm | 8~14μm |
| Repeatability | ±2°F (±1℃) | ±2°F (±1℃) | ±2°F (±1℃) |
| Resolution | 0.5°F (0.5℃) | 0.1°F (0.1℃) | 0.1°F OR 0.1℃ (Above 2000°F: 1°F) |
| Response Time | 500ms | 500ms | 500ms |
| Operation Temp | 0~50℃ (32~122°F),10~90%RH | 0~50℃ (32~122°F),10~90%RH | 0~50℃ (32~122°F),10~90%RH |
| Auto Power Off | Automatically after approx. 6sec | Automatically after approx. 6sec | Automatically after approx. 6sec |
| Emissivity | Fixed at 0.95 | 0.95 | Adjustable 0.1~1.0 |
| Dimensions | 5.9" x 5.2" x 1.8" (150x133x45mm) | 6.7" x 5.2" x 1.8" (170mm x 133mm x 45mm) | 7.9" x 6.5" x 2.0" (200 x 166 x 51mm) |
| Weight (with Battery) | 5.44 oz (169g) | 7.12 oz (222g) | 9.02 oz (281g) |
| °F/°C Switchable | YES | YES | YES |
| Backlight | YES | YES | YES |
| Laser Sight Switchable | YES | YES | YES |
| Max/Min/Avg./ΔT | NO | YES | YES |
| Auto-measuring | NO | YES | YES |
| 10 Point Memory | NO | YES | YES |
| Audio Alarm | NO | YES | YES |
| Tripod Mount | NO | NO | YES |
| Dual Display | NO | NO | YES |

## LCD Display

### 9930-IRT

Low battery
Laser On/Off
°C/°F Control Button
Scan/Hold
°C/°F Indication
Temperature Display
Laser Control Button

### 9952-IRT

Scan/Hold/Auto mode indication
Laser on/off indication
Data Max/Min/Avg/ΔT indication
High alarm/Low alarm adjustment indication
Data Memory indication
C°/F° unit indication
Temperature indication
Low battery
Up value button
Down value button
Function button

### 9975-IRT

Laser/Buzzer On/Off
Low Battery
Data Log
ΔT/Emissivity
High/Low Alarm
Memory Button
Down Button
Scan/Hold/Auto
°C/°F Indication
Main Temperature Display
Max/Min/Avg
Set/Record Value
Lock Key
Mode Key
Up Bottom

Add Model


Add/Subtract Model

## Description

The Redington Models E2 & E3 offer an electronic version of the popular Hand Tally counter and are available with a choice of Add only or Add/Subtract models.  Counts are input using large positive action buttons.  The Add model has a single count button and the Add/Subtract model has two separate count buttons.  The "+" button (green) will add a count to the total and the "-" button (red) will subtract a count from the total. When activated, an audible "beeper" sounds every count to verify that a count has been registered.  All electronic components provides a long life counter with no moving parts to wear out.  The counter is manufactured from impact-resistant plastic, combining lightweight with outstanding durability.

## Features

- Add or Add/Subtract models
- Beep at every count with the option of switching the sound off for silent operation
- Cannot accidentally reset or turn off;  On/Off/Reset button must be held down for 3 seconds to reset
- Long life battery (replaceable) - typically 250 days without sound

- Large LCD display
- No mechanical parts to wear out
- Large rubber buttons for comfort of use
- Ergonomically designed for ease of use
- Carrying cord - 9.0" [229mm]
- Light weight

## Specifications

| | | | |
|---|---|---|---|
| **Display:** | 4 digit LCD 0.35" [9mm] high | **Operating Temperature:** | +32°F to +122°F [0°C to +50°C] |
| **Battery Operating Life:** | 250 days (without sound) | **Weight:** | 0.7 oz (20g) |
| **Reset:** | Push button | **Color:** | Black case with blue buttons (Add Only) or green and red buttons (Add/Subtract) |

## Models          Description

**E2-1804**     Electronic Hand Tally (Add only)
**E3-1804**     Electronic Hand Tally (Add/Subtract)
*     All Items are normally in factory stock.

## Dimensions

2.4" L x 1.4" W x 0.6" D [60mm x 35mm x 15mm]

## Operating Instructions

- Press On/Off/Reset button to power ON the unit
- Add model - Press count button to increment count
- Add/Subtract model - Press the "+" button to Add, Press      the "-" button to Subtract
- To reset counter press the On/Off/Reset button for 3 seconds
- To switch the sound Off/On at any time, hold the count button down for 3 seconds
- To turn Off, press the On/Off/Reset for 3 seconds when counter display is at "0"

## Battery Replacement

When the display gets dim, replace the battery.
Use 1 type AG10 1.5 V or equivalent
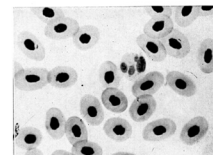Observe polarity (±) during replacement

## Applications

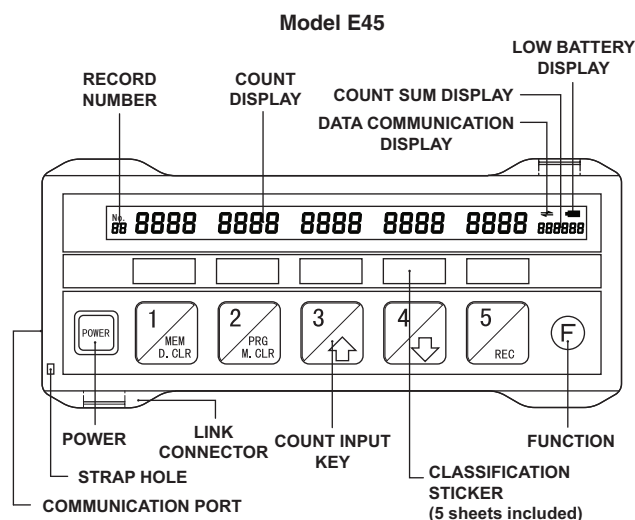| Inventory | Attendance | Traffic | Food portions | Blood cells |
|---|---|---|---|---|

## Description

The Redington Model E45-1804 provides the user with an economical upgrade from the traditional mechanical modular tally counters and at a lower cost. A single module displays five 4-digit LCD's counters, internal 5-digits (99999), total counter is 6-digits (999999), and provides RS-232C serial communications. All of the stored data, maximum of 99 records, (count data, sum data) on the E45-1804 can be read and viewed on a PC through serial communications. The 4 least significant digits of the counter can be viewed on the display. To view all 5 digits, please use the communications feature of the unit to recall the complete internal counter data. Free software is available from our web site, redingtoncounters.com. The Model E45-1804 is self powered by 4 AAA batteries, which makes it ideal for field use. It has non-volatile memory. During battery replacement the memory of stored data will be retained. After the batteries are replaced the original data will be displayed.

## Features

- Communications functions to PC; convenient for totalizing and analyzing
- Battery life - 200 hours (low battery indicator)
- 7 segment LCD (digit size: 0.2" [5mm] height)
- Memory storage for 99 data records
- Internal 5-digit counter and 6-digit total counter

- Strap hole for lanyard
- Classification sticker
- Light weight (1/3 of a traditional metal type)
- Excellent tactile feel buttons
- Modular construction allows connecting multiple counters

## Specifications

| | |
|---|---|
| **Display**: | LCD 4 digits height 0.2" [5mm] counters (x5) |
| | 6 digits total counter & record number |
| **Reset:** | Push button |
| **Memory:** | Maximum of 99 records |
| **Dimensions:** | 2.44" (H) x 5.5" (W) x 0.83" (D) |
| | [62 (H) x 140 (W) x 21 (D) mm] |
| **Accessories:** | Instruction manual, batteries (4), stickers (5) |
| **Approvals:** | CE compliant |
| **Weight:** | 5oz [130g] (batteries included) |
| **Data Output:** | RS-232 PC Serial Interface |
| **Battery Operating Life:** | 200 hours, power off when not in use (4) AAA (1.5) alkaline type batteries |
| **Software/Operating Instructions:** | Download from Redington web site |
| **Communications Cable:** | Use any market available RS 232 cable (straight) to connect to the PC and a D-SUB 9 pin (female) connector for connection to the E45-1804 |
| **Data Output:** | RS-232 PC Serial Interface |
| **Operating Temperature:** | 14°F to 122°F [-10°C to 50°C] 85% RH max. |

**Model E45**



RECORD NUMBER, COUNT DISPLAY, COUNT SUM DISPLAY, DATA COMMUNICATION DISPLAY, LOW BATTERY DISPLAY

POWER, LINK CONNECTOR, COUNT INPUT KEY, FUNCTION, STRAP HOLE, CLASSIFICATION STICKER (5 sheets included), COMMUNICATION PORT
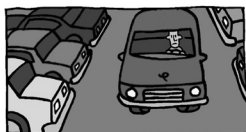
## Models    Description

**E45-1804**    Electronic Multi Tally (x5 LCD) with serial communications

\*    Item is normally in factory stock.

## Applications
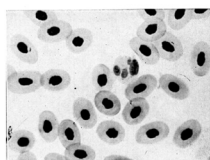
| Traffic | Lab Counter | Inventory | Attendance |
|---|---|---|---|

## Description

The Redington Model E5 is an electronic hand tally with a 4.5-digit main display and two 4-digit sub-displays. The tally has 4 selectable modes that are user settable by internal DIP switch position. Depending on the DIP switch setting specific modes of operation can be chosen. The unit has a built in buzzer that can be enabled or disabled by pressing and holding the Reset button.
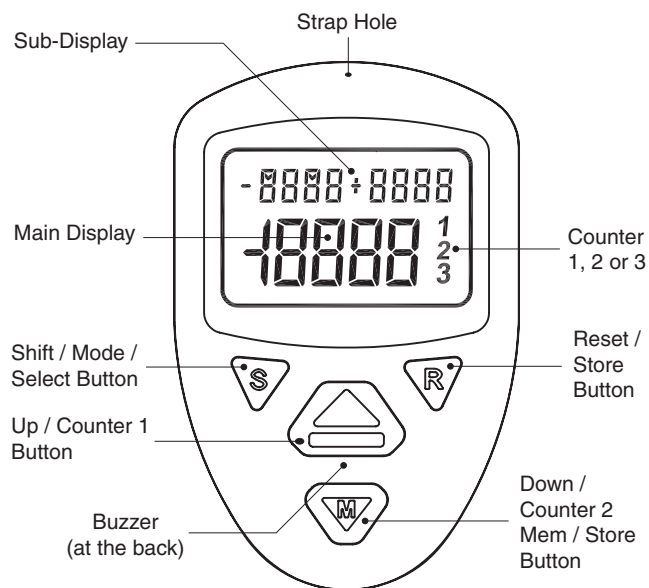
**Operating Modes:**

1). Simple Hand Tally- Add & subtract count, reset and memory storage.

2). Two counter Tally- Two tally's, reset and selectable add or subtract count with either tally.

3). Three rotating Tally counters- Three independent tally counters. These counters can be rotated or shifted in a clockwise manner.

4). Multiple memory Tally- This is an add tally with a multiple number of memories for storing count value. It has two operating modes, count mode and memory mode. The user can transfer the displayed count to a memory. Each time the user stores count values the memory number increments.

**Physical Nomenclature:**

- 4 function buttons

- Large LCD display

- Button type battery operated; use type CR2032 or equivilent.  Observe polarity (+/-) during replacement.

**Model E5-1804**

Strap Hole

Sub-Display

Main Display

Counter 1, 2 or 3

Shift / Mode / Select Button

Up / Counter 1 Button

Reset / Store Button

Buzzer (at the back)

Down / Counter 2 Mem / Store Button

**Mode Selection:**

An internal DIP Switch is available to select four different modes.  Depending on the setting of a 2-bit DIP Switch a specific mode can be selected.  The E5-1804 is shipped from the factory in Mode 1.  The table below shows the corresponding DIP Switch configuration:

To change the mode:

1. First remove the internal battery
2. Set the internal DIP switches to the new mode
3. Reinstall the battery

| MODE | SWITCH 1 | SWITCH 2 |
|------|----------|----------|
| Mode 1 | ON | ON |
| Mode 2 | ON | OFF |
| Mode 3 | OFF | ON |
| Mode 4 | OFF | OFF |

The buttons assigned to each function per specific mode is given below:

| MODE | ▲ | ▼M | R | S |
|------|-----|------|------|------|
| Mode 1 Simple Tally | Up | Down | Reset / Store | No Function |
| Mode 2 2 Counter Tally | Count UP (Counter 1) | Count UP (Counter 2) | Reset | Select (+/-) |
| Mode 3 3 Rotating Counters | Up | Down | Reset | Shift |
| Mode 4 Multiple Memory | Up | Mem / Store | Reset | Mode |

## Features

- User friendly four programmable modes
- Add, add/subtract, store memory, and rotate or shift display
- 1 main and 2 sub displays
- Lightweight
- No mechanical parts to wear out

- Replaceable battery
- Beep at every count that can be enabled or disabled by pressing and holding the reset button ®
- Includes 22.4" 570mm] carrying cord
- Large LCD screen; display is always on

## Specifications

| | | | |
|---|---|---|---|
| **Display:** | | **Dimensions:** | 3.1" H x 2.0" W x 0.7" D  [78 H x 51 W x 17 D mm] |
| **Main display:** | LCD 4.5 digits (19999)*; 0.39" [10mm] | **Battery operating life:** | 3V CR2032; approx. 1.5 years |
| **Sub displays:** | 4 digits (9999); 0.19" [5mm] | **Operating temperature:** | 41°F to 108°F [5°C to 40°C] |
| **Reset:** | Push button | **Storage temperature:** | 13°F to 146°F  [-10°C to 60°C] |
| **Color:** | Black | **Humidity:** | 85% RH (non-condensing) |
| **Weight:** | 1.4 oz  [40g] including battery | **Default mode:** | Mode 1: simple tally |

\* Take note that 4.5 digits (-9999 ~ 19999) is only applicable in Mode 4.  Up to 4 digits are applicable in Modes 1, 2, & 3.

## Models     Description

**E5-1804**     Electronic Hand Tally;  3 displays;  add/subtract;  store count and memory

\* Item is normally in factory stock.
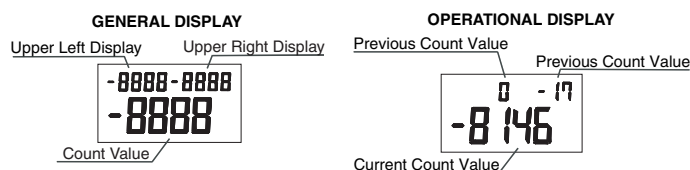
## Operating Instructions

### MODE 1

Mode 1 is a simple add/subtract counter with two temporary memory displays.

**Buttons Active:**

| TYPE | ⬆ | ⬇ | ® | $ |
|---|---|---|---|---|
| Type 1 Up/Down Counter | Up | Down | Reset | No Function |

**Display Area:**



GENERAL DISPLAY — Upper Left Display, Upper Right Display, Count Value

OPERATIONAL DISPLAY — Previous Count Value, Previous Count Value, Current Count Value

**Count Operation:**

In this mode you can count up from 0 to 9999 by pressing the ⬆ button. You can also count down to -9999 by pressing the ⬇ button. Each actuation of the ⬆ button will increment the count values by 1, likewise, pressing ⬇ button will decrement the count value by 1. If the count value reaches the maximum and minimum limit the next display will be an error message (**Err**). Pressing the ® button will display the current count value to the upper left display and reset the count value on the main display.

**Reset Operation:**

This mode has 2 temporary memories that store the last 2 count values on the upper right and upper left display. When you press the ® button the main display will be rest to 0 and the value prior to reset will be displayed on the upper left display, while the value on the upper left display will be shifted to the upper right display. Every time the ® button is pressed the last count values will be shifted again from the main display, to the upper left display, and the upper left display to the upper right.
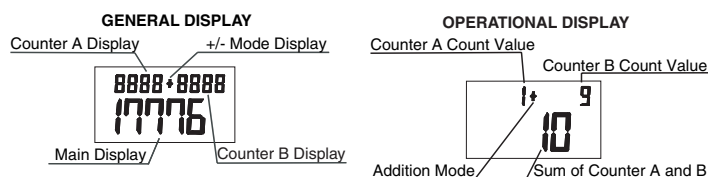
### MODE 2

Mode 2 is a two counter tally with selectable add/subtract feature.

**Buttons Active**:

| TYPE | ⬆ | ⬇ | ® | $ |
|---|---|---|---|---|
| Type 2 2 Counter Tally | UP (Counter A) | UP (Counter B) | Reset | Select (+/-) |

**Display Area:**



GENERAL DISPLAY — Counter A Display, +/- Mode Display, Main Display, Counter B Display

OPERATIONAL DISPLAY — Counter A Count Value, Counter B Count Value, Addition Mode, Sum of Counter A and B

**Count Operation:**

In this program the user has two counters **A** and **B** available at any time.  These counters can only count in an additive direction by pressing the ⬆ button for counter **A** and ⬇ button for counter **B**. The count value of counter **A** is located on the upper left display and the count value of counter **B** is located on the upper right.

**Reset Operation:**

When the maximum value of any counter is reached, an error (**Err**) message will be displayed. When the ® button is pressed both counters **A** and **B** will be reset to 0.

**Sum and Difference Operation:**

This mode also performs a sum or difference of counter **A** and **B**. The sign between the upper left and upper right display determines whether the main display is a sum or difference of both counters. If a **–** sign is displayed, the main display is the difference of counter **A** and **B**. If a **+** sign is displayed the main display is the sum of both counters. To change from addition to subtraction or vice versa, press the ⬇ button.
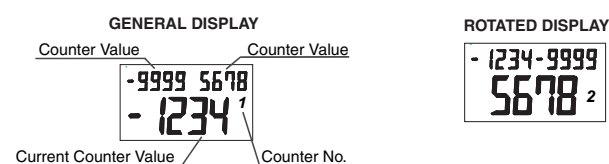
### MODE 3

Mode 3 is an add/subtract counter with three independent counters. These counters can be rotated or shifted in a clockwise manner.

**Buttons Active:**

| TYPE | ⬆ | ⬇ | ® | $ |
|---|---|---|---|---|
| Type 3 3 Up/Down Counter | Up | Down | Reset | Shift |

**Display Area:**



GENERAL DISPLAY — Counter Value, Counter Value, Current Counter Value, Counter No.

ROTATED DISPLAY

**Count Operation:**

In this mode you can program to count up/add from 0 to 19999 by pressing the ⬆ button. You can also count down/subtract to -9999 by pressing the ⬇ button. Each press of the ⬆ button will increment the count value by 1, likewise, pressing the ⬇ button will decrement the count value by 1. If the count value reaches the maximum and minimum limit the next display will be an error (**Err**) message. Pressing the ® button will reset the current count value to 0. To identify which counter is the current display a counter number is display on the right side of the main display.

**Rotate/Shift Operation:**

This program has 3 independent counters. To rotate/shift these counter press the Ⓢ button. The counter number of the current display is shown on the right side of the main display. Its corresponding count value is also displayed on the main display. The values of the other two counters are also shown on the upper right and upper left portion of the display. These values cannot be changed unless they are selected. Pressing the ® button will only reset the current counter value. To reset the other counters you must rotate/shift and reset every single counter until all three of them are reset to 0.

## MODE 4

Mode 4 is an add counter with 59 memory locations for storing count values. It has two operating modes, count and memory mode.

**Buttons Active:**

| TYPE | ⬆ | ⬇ | ® | Ⓢ |
|---|---|---|---|---|
| Type 4 Counter with Memory | Up / Scroll Up | MEM / Scroll Down | Reset | Shift |

**Display Area:**

**COUNT MODE**

Memory Label     Number of Stored Values

MEM-　0

0

Count Value

**MEMORY MODE**

Memory Label     Memory No.

MEM- 3

Blinking

102
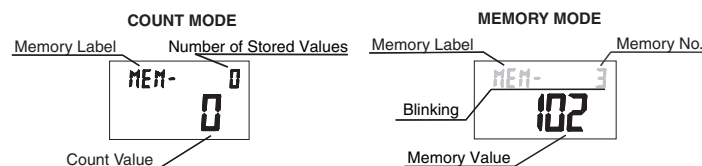
Memory Value

**Count Mode:**

In the count mode you can count from 0 to 19999 by pressing the ⬆ button. You can store count values by pressing the ⬇ button. Every time you store count values the memory number increments. This memory number is located on the upper right portion of the display. Pressing the ® button will reset the count value to 0 but the memory will be retained. To go to the memory press the Ⓢ button. The count value, before changing to memory mode, will be retained and displayed again when you go back to the count mode.

**Memory Mode:**

In the memory mode, you can view the stored values in the memory. Pressing the Ⓢ button in the count mode will change the operation to memory mode. The blinking memory message (**MEM**) and number signifies that you are in the memory mode. The last value stored in memory will be the first data shown in the display. While in this mode, you can browse the stored values by pressing the ⬆ button. The value stored in memory will be displayed on the main display and its corresponding memory number will be shown on the upper right area. To delete the memory, press both the ⬇ and ® buttons at the same time. Upon deleting the memory, the main display will show dashes (**- - - -**) and the memory number must be reset to 0. To go back to count mode press the Ⓢ button.
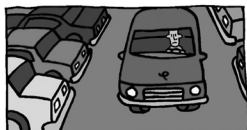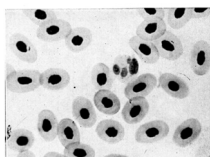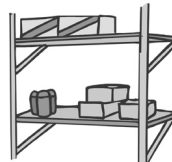
## Battery Replacement

When the display becomes faint or disappears, it indicates a low battery condition. Replace the battery when this occurs.

1. Remove the screw at the lower back of the unit and remove the back cover by lifting it.

2. Slide the battery from the left side to the right (1) and lift the battery from the battery holder (2). (See "removing" diagram below)

3. To install a new battery, insert the battery from left to right (1) and push down the battery until it locks on the battery holder (2). (See "installing" diagram below)
   Make sure that the battery is installed properly according to the indicated polarity on the battery holder.
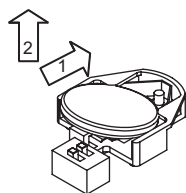
REMOVING            INSTALLING

**Back View (Internal)**

Internal DIP Switch

CR2032 Button Type Battery
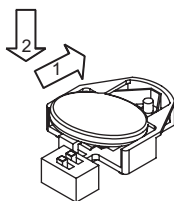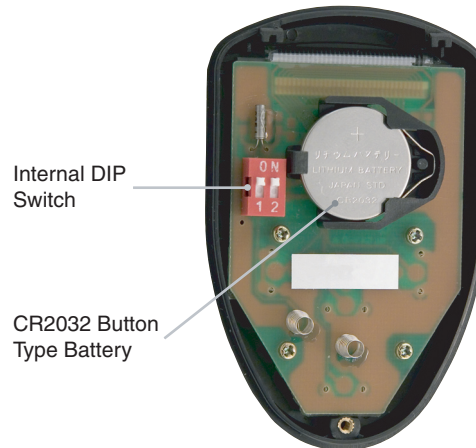
-Take note that this counter does not have a memory. All stored data will be erased when battery becomes low or changed.
-The unit is shipped with a battery installed and battery life may be shorter than the indicated specification. However, if a new battery is installed, battery life will be according to indicated specification.
-Remove the battery when the device will not be used for a long period of time.

## Applications

Traffic        Lab Counter        Inventory        Attendance