

## Common Specification

Tare : Zero to Full weighing range

Span adjustment : HT-R..  
Automatic semi-automatic Span  
Adjustment with built-in  
calibration weight  
HT.. Manual operation Span  
Adjustment with external  
calibration weight

Over error: "o-Err" showed when  
Full weight range +9 more digits  
over

Temperature and humidity range:  
10 ~ 30°C、 Up to 80% rh (without  
the dew condensation)

Power source : AC adapter Input  
100-240VAC / Output 12VDC

Output : RS232C & peripheral  
device output



### OVERVIEW

Capacity: 80g ~ 220g/  
Readability : 100mg

World-first!! Analytical Balance with  
Tuning Fork sensor Revolutionary  
performance outreaches the common  
sense of Analytical Balance field

## HT/HTR Series

Analytical Balance

## Features

- Resolution : 1/2, 200,000
- Built-in calibration weight for Automatic and semi-automatic Span Adjustment (HT-R)
- Light weight : Gross weight is reduced with approx. 50%
- Compact : Overall size is approx. 60% shrinked
- Shorten warm-up time (reduced with approx. 50%)
- Dry Battery operation is available, first in Analytical Balance (Optional)
- Correspondence product for Free Download Data Acquisition software
  - \* Data is the comparison result with Shinko one generation older products (same capacity, same min-graduation, force balance type analytical balance with built-in calibration weight)

### **Bar graph display to indicate available weighing range**

Usage status to scale capacity is displayed in 40 fraction bar graph. Able to grasp the remaining weighing range at glance

### **Analytical Balance first, Dry Battery Drive (Option)**

Dry Battery type operates for roughly 10 hours with back-light off

## **Mount the newly developed Tuning Fork sensor**

Further advanced and newly developed high-precision/high-graduation Tuning Fork sensor is mounted in replacing Tuning Fork sensor known as faster response and flicker-free stable display. Realize the world first tuning fork type analytical balance with its graduation at 1/2,200,000 and min. display interval in 0.1mg. Revolutionary performance outreaches the common sense of Analytical Balance field, such as light weight, compactness, shorten warming-up time and reduction of energy consumption etc

### **Light weight and compact body outreaches the common sense of Analytical Balance**

Realized approx. 2.8kg light weight and compact body by using Tuning Fork sensor and plastic wind shields. Plastic is used for 360 degree around clear and hard to retain electrostatics. Maintenance is easy as attachment and detachment are simple enough

### **"One-touch response time switching" function**

Usage status to scale capacity is displayed in 40 fraction bar graph. Able to grasp the remaining weighing range at glance

## **Full Automatic Span Adjustment Function**

Full-automatic Span Adjustment function, which automatically detect a shift in the environment like ambient temperature change or longer time usage and calibrate (span adjustment) scale, is equipped. Periodic calibration maintains high-accuracy of the scale

### **Print Date and Time in ISO/GLP/GMP compliant format**

Able to print calibration records in ISO/GLP/GMP compliant format with date and time stamp when Shinko printer is connected. In addition, fixed time elapsed printing is available with using interval function

### **Large LCD Display With Back-light Read Out Even in a Dark place**

Back-light function is added to large LCD display to read out even in dark place. Usefull in dark room like laboratory

### **Density Measurement Kit (Option)**

Able to measure density with attaching density Measurement Kit

### **Standard Equipped RS-232C**

RS-232C interface and peripheral equipment output are standard equipped

## Specification

Model name	HT84R	HT124R	HT224R	HT84	HT124	HT224
	HT84RC E	HT124RC E	HT224RC E	HT84C E	HT124C E	HT224C E
Capacity	80g	120g	220g	80g	120g	220g
Readability (d)	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Verification Intervals (e)	1mg	1mg	1mg	1mg	1mg	1mg
Repeatability	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg	0.1mg
Linearity	±0.3mg	±0.3mg	±0.3mg	±0.3m g	±0.3mg	±0.3mg
Stabilization time	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.	3.0 sec.
Pan size	80mm dia					
Dimention(WDH)	213×290×314mm (Including Windshield)					

## Functions

Back-light LCD display	Counting	Percent	Carat	Monme	Coefficient	Specific gravity	Stand-by
Switching function of Min. readability	Comparator (Limit)	Accumulative adding	Bar-Graph Indication				
Built-in automatic calibration weight	RS232C output	Print output	ISO/GLP/GMP compliant print				
Clock/Calender	RTS software download	Under weight	Battery drive	Dry-cell battery drive			

## Option

Model No.	Option Name
HTDK	Density measurement kit
HTBT	Dry-cell battery pack

## Peripheral equipment

Model No.	Peripheral Name
CBM-910 II	Standard Printer
CSP-160 II	Statistics Printer
LAS-04D-SD	"No wind" Ionizing blower
RTS	Data-collecting Software