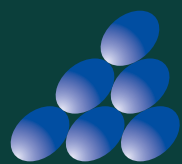


Counting Scales



**FC-Si/i** Series



PCS.



CERTIFIED

**A&D**

...Clearly a Better Value

A&D Company, Limited

<http://www.aandd.jp>

HyBrid Measurement Engineering

# Two Step Operation Manual

## Unit Weight Registering Navigator

Just follow the flashing light to complete a unit weight registration; it is beginner-friendly!

Select the best-suited way from ID number data retrieval, 10-key pad input, or sample size weighing.

### STEP 1

Press the SAMPLE key.  
Place 10 sample pieces  
on the weighing pan.

blink! blink!



### STEP 2

Press the ENTER key.

blink! blink!



## Absolutely Easy!

### Easy Data Retrieval

For each weighing article, it is easy for anyone to instantly retrieve data such as ID number, unit weight, tare weight, and comparator upper/lower limits without making an error.

It helps to improve effectiveness and reliability of operation. Especially effective for multiproduct lines.

### Simple Operation Mode

You can avoid making any unwanted operational mistakes by enabling just the keys you need.

(This mode is available for zero setting, tare weight cancel setting, and sample counting setting.)

### Buzzer

Sounds when the current counting reaches, exceeds, or lacks a set quantity. The alarm beeps when an operational error occurs.

### Comparator Function

COMPARATOR

Compares a count or weight. When the comparator function is activated, "HI", "OK" or "LO" is displayed.

### Accumulation Function

Totals piece count into memory. Works in automatic or manual mode.

## Extremely Accurate!

### High Internal Resolution & Wide Counting Range

Internal resolution is enhanced for more accurate counting. (FC-Si: 1/10,000,000 FC-i: 1/1,000,000) Now you can make counting of both lightweight and heavyweight articles with only one scale.

Replace conventional scales (used to require one each for light piece weight and heavy piece weight) with this scale, and save your cost and space as well as trouble to shift the load from the unit weight setting pan to the counting pan during measurement.

### Automatic Counting Accuracy Improvement (ACAI)



ACAI automatically corrects errors caused by variation in unit weights of weighing article. It makes even more accurate counting possible.

### Aluminum Die-cast Frame

Robust body structure gives long-time stability and high accuracy of the product.

# Makes Operator's Life Easy!

## Large Stainless Steel Counting Pan

Large-sized weighing articles can be effortlessly mounted on the pan.  
The pan is removable and washable.

## Large, Clear Vacuum Fluorescent Display (VFD) Full of Information

Displays quantity, gross weight, unit weight, ID number (6 digits), comparison result, product name (12 alphanumeric characters), and main/remote scale identification.

## Large Memory for 500 Items

Stores data on unit weight, tare weight, upper/lower limit values, and gross quantities (accumulated total) according to ID number.



FC-Si/i

SHS  
Super Hybrid Sensor

888  
VFD display

A4A  
Automatic Adjustment

UFC  
Universal Function Control

COMPARATOR

RS-232C  
STANDARD

SPLASH  
Full Digital Calibration

FDC  
Full Digital Calibration

WinCT

## Cordless Scale (Optional)

The scale can be used at a place with no power source (for approx. 10 hours) with the optional rechargeable battery pack (Ni-MH).

## RS-232C Interface as Standard Equipment

The scale can be easily connected to a printer or PC via the RS-232C Interface provided as standard. (A connecting cable required.)

## Serial Input/Output via 3 Channels (Optional)

Up to 3 devices can be used by connecting with the optional RS-232C interface. PC, printer, barcode reader, etc., can be used simultaneously.





# Inventory Management Made Easy!

## Inventory Control System

You can easily build an inexpensive inventory control system with the FC-Si/i, barcode label printer AD-8125, and barcode reader FC-01i.

It will contribute to reducing of total cost and improving reliability by eliminating errors and unnecessary repetition during massive processing jobs such as material control, etc.



### Very Convenient!

#### Remote Scale

Even heavy unit weight articles or quantity exceeding the weighing capacity of the main scale can be measured with a remote scale (optional).



#### Barcode Label Printer AD-8125

Prints on a label product name, ID number, unit weight, gross weight, and quantity. You can design your own labels with the UFC function.

Universal Flex Coms (UFC) allows you to format the printer label.



#### Dedicated Barcode Reader FC-01i

##### Improved Accuracy of Simplified Inventory Control

Prints on a label a barcode with an ID number, product name, quantity, unit weight, gross weight, and date. It helps to eliminate errors in reading/entering as well as to reduce operation/inventory cost.

You can register an ID number, unit weight, tare weight, and comparator upper/lower limit in the barcode.

#### Barcode Reader

Registered information such as product name, ID number, unit weight, tare weight, upper/lower limit, etc. can be easily retrieved.

#### Applicable to Various Barcodes

Compliant with barcodes JAN-13/8, EAN-13/8, UPC-A/E, Coadabar (NW-7), ITF (Interleaved1of5), and Code39.



# Two Scale Operation Made Easy!

## Counting Scale...Tips on Selection

Firstly, choose a model that has the smallest possible minimum unit weight\*. Secondly, choose a model that has a weighing capacity\* of a little over the weight of the articles you regularly measure.

\* Minimum unit weight: The smaller the value is, the lighter an article you can measure and the higher the accuracy you can achieve.

\* Weighing capacity: The greater the value is, the heavier an article you can measure. However, a model that has greater weighing capacity has also greater minimum unit weight. It is best to select the weighing capacity range you actually need in order to make accurate measurement.



### Remote Scale

Model	Weighing Capacity	Platform Size (WxD)	Recommended Pairing	
			FC-500Si	FC-5000Si
SB-15K10 SA337	15kg	250 x 250mm	●	●
SB-60K11 SA337	60kg	330 x 424mm	●	●
SB-100K12 SA337	100kg	390 x 530mm	●	●
SB-200K12 SA337	220kg		●	●
FC-09-300K4	300kg	700 x 600mm	●	●
FC-09-600K4	600kg		●	●
FC-09-600K3	600kg		●	●
FC-09-1200K3	1200kg	1000 x 1000mm	●	●

Model	Weighing Capacity	Platform Size (WxD)	Recommended Pairing						
			FC-500i	FC-1000i	FC-2000i	FC-5000i	FC-10Ki	FC-20Ki	FC-50Ki
SB-15K10 SA337	15kg	250 x 250mm	●	●	●	●	●	●	●
SB-60K11 SA337	60kg	330 x 424mm	●	●	●	●	●	●	●
SB-100K12 SA337	100kg	390 x 530mm	●	●	●	●	●	●	●
SB-200K12 SA337	220kg		●	●	●	●	●	●	●
FC-09-300K4	300kg	700 x 600mm	●	●	●	●	●	●	●
FC-09-600K4	600kg		●	●	●	●	●	●	●
FC-09-600K3	600kg		●	●	●	●	●	●	●
FC-09-1200K3	1200kg	1000 x 1000mm	●	●	●	●	●	●	●



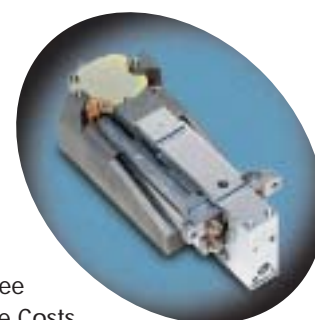
## Accurate Counting Made Easy

### With 1/10,000,000(FC-Si)

### Super Hybrid Sensor

Our revolutionary Super Hybrid Sensor (SHS) technology improves response speed, accuracy and minimizes maintenance costs.

SHS combines the best of magnetic force restoration and single point parallelogram load sensing technologies. Its unique design provides the fastest response speed in its class - just 1 second! And if the time ever comes when the SHS needs repair, you just replace one of three parts - there is no need to replace the whole sensor! This translates to Minimum Maintenance Costs.



## Standard Windows Communication Tools Software



Download free copies of WinCT-A&D's powerful and flexible data collection software tool for virtually instant connection to a PC-and WinCT-UFC-software to customize the print format.

## Specifications

	FC-500Si	FC-5000Si	FC-500i	FC-1000i	FC-2000i	FC-5000i	FC-10Ki	FC-20Ki	FC-50Ki
Minimum Unit Weight									
(Normal Mode)	0.001g	0.01g	0.01g	0.02g	0.04g	0.1g	0.2g	0.4g	1g
(Fine Mode)	0.00005g	0.0005g	0.0005g	0.001g	0.002g	0.005g	0.01g	0.02g	0.05g
Weighing Capacity k(g)	500g	5000g	500g	1kg	2kg	5kg	10kg	20kg	50kg
Display Resolution k(g)	0.02g	0.2g	0.05g	0.1g	0.2g	0.5g	1g	2g	5g
Weighing Capacity lb	1lb	10lb	1lb	2 lb	5 lb	10 lb	20 lb	50 lb	100 lb
Display Resolution lb	0.00005 lb	0.0005 lb	0.0001lb	0.0002lb	0.0005lb	0.001lb	0.002 lb	0.005 lb	0.01lb
Max. Count Display	9,999,999		1,000,000						
Sample Size	10 pieces (5, 25, 50, 100 or at random setting)								
Non-linearity	± 0.02g	± 0.2g	± 0.05g	± 0.1g	± 0.2g	± 0.5g	± 1g	± 2g	± 5g
Repeatability (Standard Deviation)	0.02g	0.2g	0.05g	0.1g	0.2g	0.5g	1g	2g	5g
Span Drift	±10ppm / °C (5°C – 35°C) typ.		± 20ppm / °C (5°C – 35°C) typ.						
Operating Temperature and Humidity Range	-10°C to 40°C / 14°F to 104°F, 85%RH or lower (No condensation)								
Sensing Method	Super Hybrid Sensor (SHS)		Strain Gauge Load Cell						
Internal Resolution	1/10,000,000		1/1,000,000						
Display	Vacuum Fluorescent Display								
Interface	RS-232C Standard Equipment (1ch) (When the optional FC-03i is used: 3ch, When the optional FC-04i is used: 2ch)								
Platform Size	128x128mm 5.0x5.0inch	165x165mm 6.5x6.5inch	205 x 152 mm 8.1 x 6.0 inch		300 x 280 mm 11.8 x 11.0 inch				
Dimensions	330(W)x 462(D)x 106(H)mm 13.0(W)x 18.2(D)x 4.2(H)inch		330(W)x 462(D)x 107(H)mm 13.0(W)x 18.2(D)x 4.2(H)inch		330 (W) x 462 (D) x 117 (H) mm 13.0 (W) x 18.2 (D) x 4.6 (H) inch				
Power	AC adapter (100, 120, 220, 240VAC 50Hz/60Hz) or internal battery (optional) Battery Operating Time of Approx. 10-hour (Standard Specifications)								
Weight	Approx. 7.6kg	Approx. 8.1kg	Approx. 5.5kg		Approx. 6.5kg	Approx. 6.7kg		Approx. 7.5kg	
Standard Equipments	Instruction Manual and AC Adapter								

Breeze Break (Only for FC-500Si)  
Breeze Ring (Only for FC-5000Si)

Specifications are subject to change for improvement without notice.

## Options

- FC-01i** Barcode Reader
- FC-02i** Internal Battery (Nickel Metal-Hydride)
- FC-03i\*** RS-232C x 2ch
- FC-04i\*** RS-232C x 1ch/Comparator Output (Relay)
- FC-05i** Interface for Remote Scale

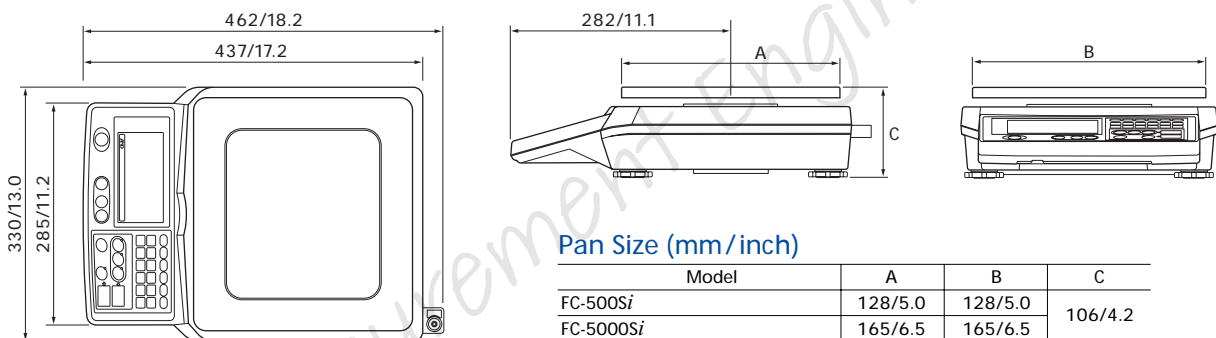
\*FC-03i and FC-04i cannot be used simultaneously. Select one of them.

## Accessories

- AD-8121B** Compact Printer
- AD-8118B** Journal Printer
- AD-8951** Comparator Light
- AD-8125** Barcode Label Printer



## External Dimensions (mm/inch)



### Pan Size (mm/inch)

Model	A	B	C
FC-500Si	128/5.0	128/5.0	106/4.2
FC-5000Si	165/6.5	165/6.5	
FC-500i/1000i	152/6.0	205/8.1	107/4.2
FC-2000i/5000i/10ki/20ki/50ki	280/11.0	300/11.8	117/4.6



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