



TUNING-FORK BALANCE AJ Series



Tuning-fork sensor technology that keeps evolving for high performance from super-precision balances



56481354860251698482058

2618228476







Equipped with latest MMTS for incredible 1/620,000 resolution!

MMTS—An evolution in the fundamental qualities of measurement

The MMTS (Mono-Metal Tuning-fork Sensor) realizes high performance, solid noise resistance, rapid response, and a steady display with little flickering. Moreover, its energy-saving design and simple structure result in excellent long-term stability and outstanding durability.





Tuning-fork sensors
—Taking us billions of light years away

Shinko Denshi's tuning-fork sensors are used as high-precision, super-durable force sensors in the primary mirror control systems of Subaru, the world's largest optical telescope.

A full line-up of solutions for your needs



AJ(H)-220(C)E~620(C)E



AJ-820(C)E/1200(C)E



AJ(H)-2200(C)E~4200(C)E AJ-6200(C)E~12K(C)E



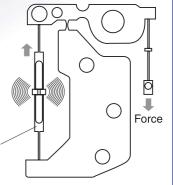
5-year warranty

MMTS is covered by a 5-year warranty that attests to its long-term stability and durability.



What makes the tuning-fork sensor so precise?

The tuning-fork sensor measures force or mass by gauging changes in oscillation frequency when a load is applied to a long, narrow vibrator, and it digitally outputs the readings.



Tuning-fork vibrator

Unlike load cell or electromagnetic systems, the tuning-fork sensor does not rely on material distortion, electromagnetic force, heavy power consumption, or A/D converters, so its inherent margin of error is extremely small, and its high precision can be maintained for a long time.

Comparison with other sensors

	Tuning-fork	Load cell	Electromagnetic	
Long-term stability (span drift per year)	1/200,000	1/10,000	1/50,000	
A/D converter	Unnecessary (digital output)	Necessary (analog output)	Necessary (analog output)	
Power consumption	Minute(1/10 of Lord cell)	Low	High	
Noise-proof	Noise-proof High		Middle	
Warm up	Unnecessary	Necessary	Necessary	

Innovative design in a compact body (patent pending)

Our innovative design curves the front of the control panel to offer a compact body without compromising ease of operation.



Comparator function

Users can tell at a glance whether a load is too heavy, too light, or the right weight according to the upper/lower weight limits they preset.



Quick-assembly shield

The sturdily constructed, fastener-free shield can be easily assembled or removed, making cleaning and storage simple.

Selectable modes and units

Users can select from 3 modes (weight, unit count, and percentage) and from 12 units of weight.



Weighing units

g, ct, oz, lb, ozt, dwt, GN, tl (Hong Kong), tl (Taiwan), tl (Singapore, Malaysia), momme, tola

Bar graph display

A 20-step bar graph display readily indicates the current load's weight against the capacity.



RS-232C interface (standard feature)

This interface allows users to connect the balance with a computer or print out data with our CSP-160/CSP-240 printers.

Specifications

•AJ-XXXCE stands for EC approval models.
•Dry cell batty type is available for each model.

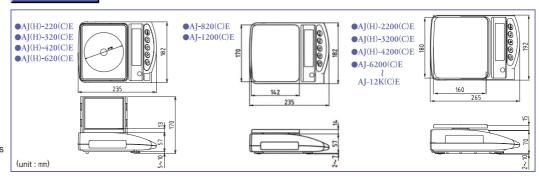
Model	AJ-220E AJ-220CE	AJ-320E AJ-320CE	AJ-420E AJ-420CE	AJ-620E AJ-620CE		AJ-1200E AJ-1200CE					AJ-8200E AJ-8200CE	
Capacity	220g	320g	420g	620g	820g	1220g	2200g	3200g	4200g	6200g	8200g	12000g
Readability	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g
Repeatability(s)	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g	0.01g	0.01g	0.01g	0.1g	0.1g
Non-Linearity(typ.)	±0.001g	±0.001g	±0.001g	±0.002g	±0.01g	±0.01g	±0.01g	±0.01g	±0.01g	±0.02g	±0.1g	±0.1g
Pan size	φ118mm 170×142mm				142mm	180×160mm						
Dimensions	235×182×168mm(including windshield)			235×18	2×75mm	265×192×87mm						
Weighing units	g, ct, oz, lb, ozt, dwt, GN, tl(Hong Kong), tl(Taiwan), tl(Singapore, Malaysia), momme, tola											
Power source	AC120/230V DC9V											
Output	RS-232C(standard)											
Measuring system	Tuning-fork frequency sensing(MMTS)											
Tare	Full weighing range											
Calibration	With external calibration weight											
Display	LCD(height: 16,5mm)											
Modes	weighing, counting, %											
Weight	Approx. 1.3kg				Approx. 2.8kg							

Model	AJH-220E AJH-220CE	AJH-320E AJH-320CE	AJH-420E AJH-420CE	AJH-620E AJH-620CE	AJH-2200E AJH-2200CE	AJH-3200E AJH-3200CE	AJH-4200E AJH-4200CE		
Capacity	220g	320g	420g	620g	2200g	3200g	4200g		
Readability	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g		
Repeatability(s)	0.001g	0.001g	0.001g	0.001g	0.01g	0.01g	0.01g		
Non-Linearity(typ.)	±0.001g	±0.001g	±0.001g	±0.002g	±0.01g	±0.01g	±0.01g		
Pan size	φ118mm 180×160mm								
Dimensions		235×182×168mm(i	ncluding windshield)	265×192×87mm					
Weighing units	g, ct, oz, lb, ozt, dwt, GN, tl(Hong Kong), tl(Taiwan), tl(Singapore, Malaysia), momme, tola								
Power source	AC120/230V DC9V								
Output	RS-232C(standard)								
Measuring system	Tuning-fork frequency sensing(MMTS)								
Tare	Full weighing range								
Calibration	With built-in weight								
Display	LCD(height: 16.5mm)								
Modes	weighing, counting, %								
Weight	Approx. 1.6kg Approx. 3.7kg								

Options & Peripherals

- •AJBT(S) ∕ AJBT(M)
 Rechargeable battery
 (S) for AJ(H)-220(C)E~1200(C)E
 (M) for AJ(H)-2200(C)E~12K(C)E
 (12-hr charge, 32-hr operation)
- •AJUH(S) / AJUH(M) Under weighing hook (S) for AJ(H)-220(C)E~1200(C)E (M) for AJ(H)-2200(C)E~12K(C)E
- ·SDI/SDR Satellite display
- ·RTS Database software for Windows

Dimentions



The contents of this catalogue are subject to change due to modifications and/or other reasons.

Distributed by:		