





Tuning-Fork Sensor Technology for high performance super-precision balances!



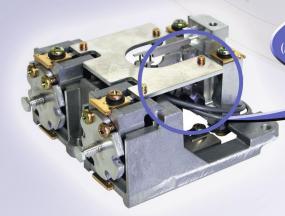


Equipped with latest MMTS for incredible 1/620,000 resolution!

MMTS- An evolution in the fundamental qualities of measurement

The MMTS (Mono-Metal Tuning-Fork Sensor) ensures 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.





MMTS (Mono-Metal Tuning Fork Sensor)

Loaded in AJ220E~ 1200E/AJ220E~ 620E

Tuning-Fork Sensors

-taking us billions of light years ahead

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-220E~620E



AJ-1200E~12000E

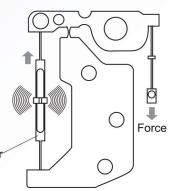


Loaded in AJ2200E~12KE/ AJ2200E~4200E

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. The reading output is digital.





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. As a result, the inherent margin of error is extremely small, and 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	High	Low	Middle		
Warm up	Unnecessary	Necessary	Necessary		

Innovative design in a compact body (patent pending)



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.

Options for modes and units

Users can select from 3 modes (weight, unit count, and percentage) and from 2 units of weight.

Weighing units: g & ct

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 .

Technical Specifications

Model	AJ-220E	AJ-320E	AJ-420E	AJ-620E	AJ-820E	AJ-1200E	AJ-2200E	AJ-3200E	AJ-4200E	AJ-6200E	AJ-8200E	AJ-12KE
Capacity	220g	320g	420g	620g	820g	1200g	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
Reapeatability(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
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	ø118mm			170x	170x142mm			180x1	180x160mm			
Dimensions	235x182x165mm(including windshield)				235x18	2x75mm		265x192x87mm				
Weighing units	g, ct											
Power source	AC 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. 3.7kg											

Optional Accessory

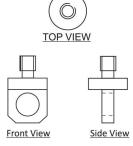
Remote Display



Charger with Battery (12V/1.3Ah)

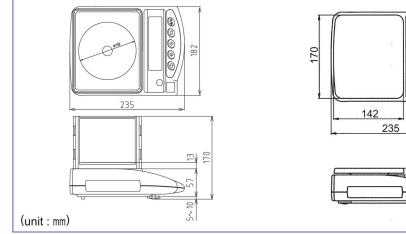


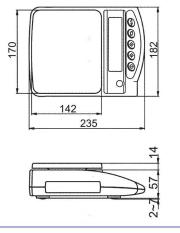
Weigh Below Hook

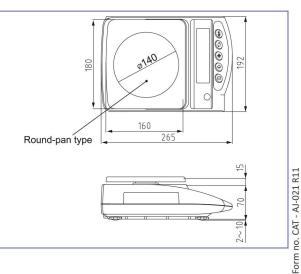


Used for capacity 220g, 320g, 420g, 620g, 820g and 200g

Dimensions







Manufactured by: Shinko Denshi Co.,Ltd.,Japan

Marketed By:

Essae-Teraoka Pvt. Ltd.



410, 100ft Road, 4th Block, Koramangala, Bengaluru-560 034



info@essae.com



http://www.essae.com



+91 80 2511 3021



1-800-425-3111



0-78488 12346

Your Essae representative



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