

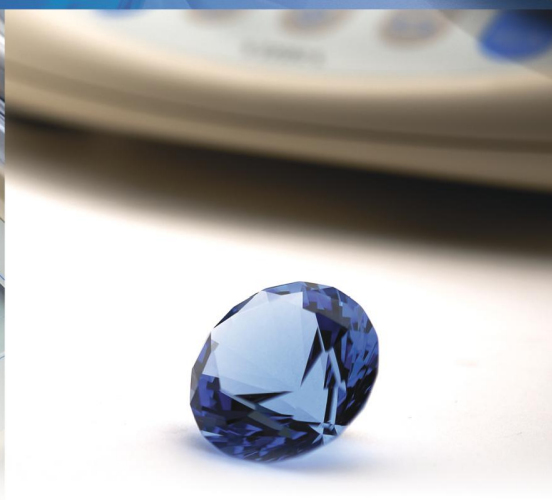
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Measure the Future

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Tuning-Fork Balances AJ series



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



JQA-2834 TSUKUBA

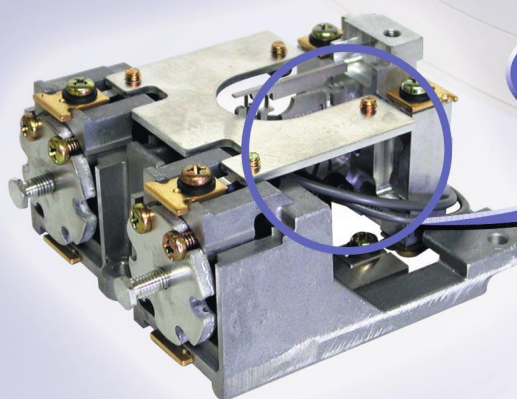


JQA-EM5309

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



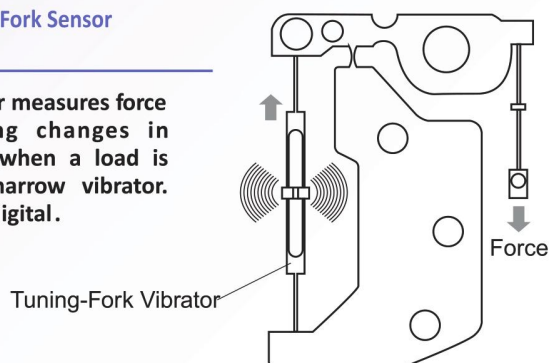
AJ-1200E~12000E



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 Load cell)	Low	High
Noise-proof	High	Low	Middle
Warm up	Unnecessary	Necessary	Necessary

Innovative design in a compact body (patent pending)



AJ-820E/ 1200E

Options for modes and units

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

weight



percentage



quantity



Weighing units : g & ct

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.



Bar graph display

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



Quick-assembly shield

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

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
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
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				170x142mm		180x160mm					
Dimensions	235x182x165mm(including windshield)				235x182x75mm		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

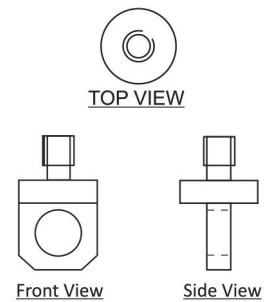
Remote Display



Charger with Battery (12V/1.3Ah)

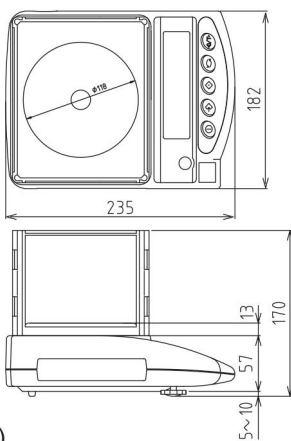


Weigh Below Hook

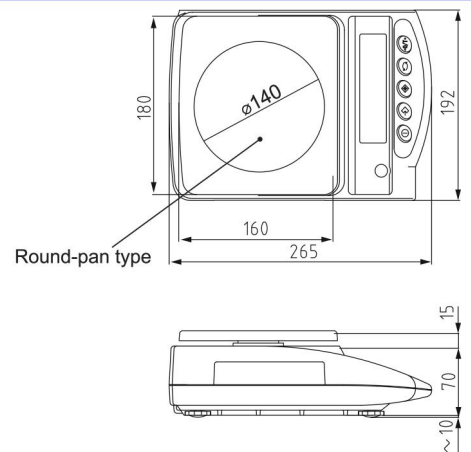
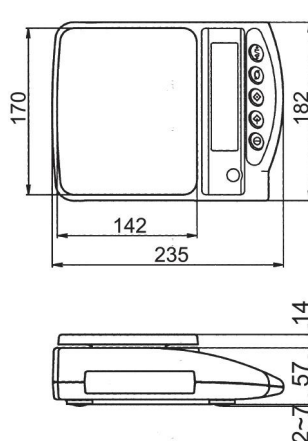


Used for capacity 220g, 320g, 420g, 620g, 820g and 200g

Dimensions



(unit : mm)



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

Marketed By:

Essae-Teraoka Pvt. Ltd.

Your **Essae** representative

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Note: The above model meets the statutory and regulatory requirements as per the provision of legal metrology Act 2009 and legal metrology (General) Rule, 2011. Specifications are subject to change without notice. Other names and logos used are property of respective brands.