

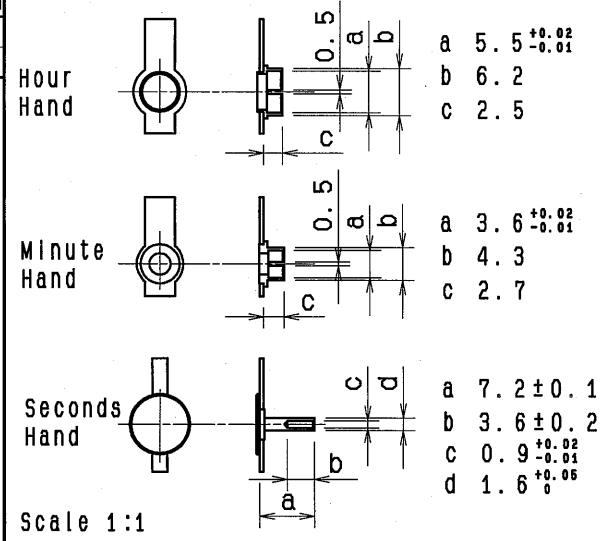
Made In SEIKO Factory (Thailand)

CAL.	A:Center Screw	B:Hour Hand	C:Seconds Hand	D:Minute Hand
19700VZZD	4.6	8.6	10.7	11.4
19809V	8.8	12.6	15.2	15.4

Indication	Hour, Minute and Seconds hand (step second)
Starting method	Self starting
Original governor	Crystal oscillator 32.768kHz
Accuracy of time	Average monthly rate : Within ±20sec.
Operating temperature	(-10~+50)°C
Operating voltage	(1.3~1.7)V
Operation current	Less than 105µA/1.5V, 23±3°C
Output torque	Seconds hand: More than 0.25x10 <sup>-4</sup> N·m(0.25gf·cm)/1.3V Minute Hand : More than 1.3x10 <sup>-4</sup> N·m(13gf·cm)/1.3V (JIS IEC R6P) (SUM-3) 1.5V
Battery	
Battery life	About 1 year
Length of pendulum rod	(120~300)mm (From dial center to Center of gravity Of pendulum)
Weight of pendulum	(10~55)g (Upper pendulum+10g<Bottom pendulum, Upper pendulum+Bottom pendulum≤55g)
Swing angle	More than 6°/1.5V, (23±3)°C Less than 28°/1.7V, (23±3)°C
Pendulum current	Less than 60µA/1.5V, (23±3)°C
Inclination	Front and rear: With in ±2° Right and left: With in ±3°
Fitting of pendulum	Upper: Insertion method Bottom: Hang method (Width of latch 5±0.05mm)

Condition of casing

- Fitting method: Center screw
- The torque to fasten is less than 1N·m(10kgfcm)
- Pressure for hands press fitting : Less than 50N(5kgf)  
[ Caution ] Support center of UPPER PLATE when fitting hands.
- Metal hands is as follows.  
\* If you use plastic hands , please make dimensions smaller than below.



Condition	Unbalance N·m (gf·cm)	Weight (g)	Length from center (mm)
Seconds hand	Less than 1x10 <sup>-4</sup> (0.1)	Less than 1	Less than 80
Minute Hand	Less than 1.5x10 <sup>-4</sup> (1.5)	Less than 2	Less than 100
Hour hand	Less than 2x10 <sup>-4</sup> (2)	Less than 2	Less than 100

The above product specifications are subject to change without prionotice for improvement.