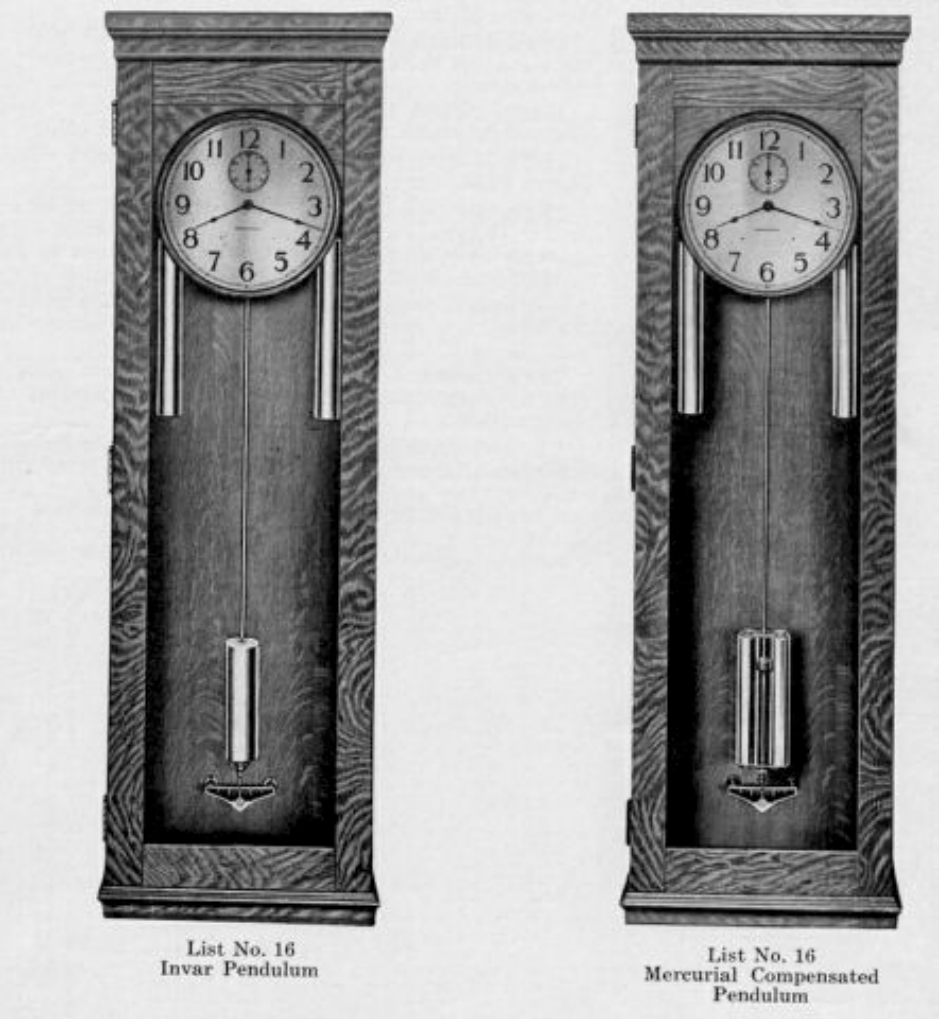
[*The following is a reproduction of an IBM product data sheet published probably in February 1939 on the Number 16 weight-driven master clock - motor wound*.]

Data Sheet I-MC-5

**WEIGHT DRIVEN MASTER CLOCK—MOTOR WOUND**



List No. 16
Invar Pendulum

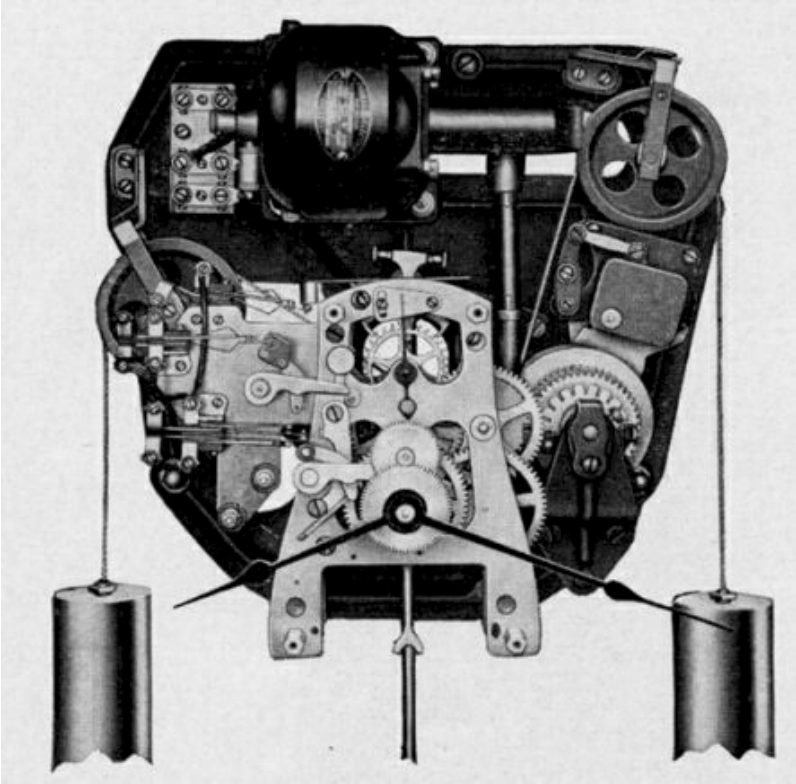
List No. 16
Mercurial Compensated
Pendulum

**Specifications**

**INTERNATIONAL MASTER CLOCK**, self regulating motor wound weight driven movement, reserve power several days, movement automatically rewound after current failure on restoration of power. Power maintained on movement while winding through differential winding gear. Graham dead beat escapement, 60 beat micrometer adjustment with Mercurial (Invar) or (Metal Ball) pendulum. Time Rating plus or minus per month (Mercurial pendulum—10 seconds) (Invar pendulum—15 seconds) (Metal Ball—30 seconds). Precision cut hard brass gears burnished and plated to prevent oxidation. Pinions stainless steel machine cut and burnished.

2407M162

**Master Clock Movements And Case Details**



Weight of movement exclusive of pendulum, weights, dial, etc., 18 lbs.

Overall dimensions of movement, 12 inches high by 11¾ inches wide, with center-arbor 8¾ inches below top of movement.

Heavy, ribbed, iron base-plate casting holds movement and pendulum in rigid alignment with each other.

Motor is spring mounted and cushioned with rubber to insure quiet operation.

The motor is a standard 1/70 horsepower series wound universal type for 100 to 125 volt commercial lighting power supply, either A.C. or D.C. It uses about ½ ampere to start and about 1/3 ampere while running.

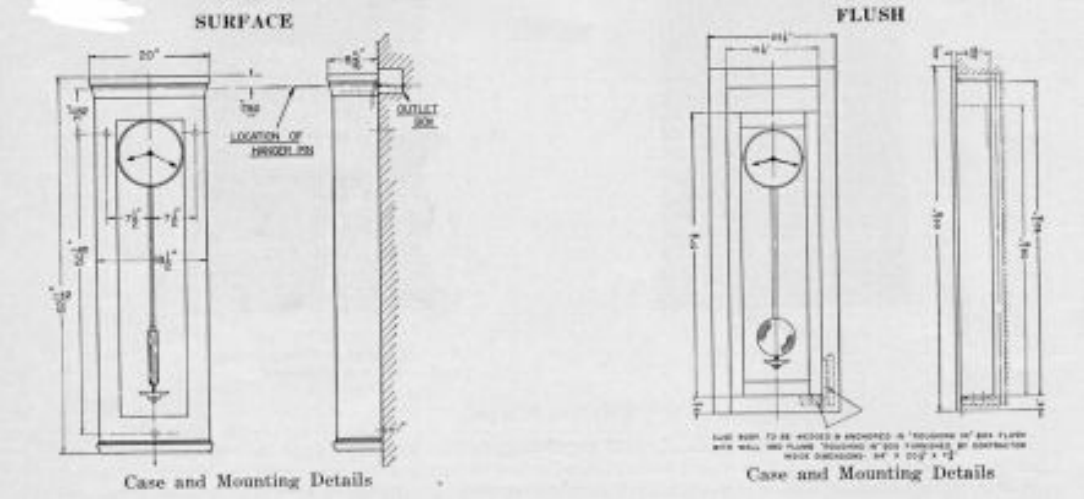
A standard toggle switch controlled by the position of the weights is used to automatically cut the motor in and out.

The escapement is free running, all contacts being operated by metal cams carried on shafts independent of the escape train.

The movement plates are of 1/8 inch hard brass with all bearings lined reamed in position to insure perfect alignment. All pivot bearings are jewel-cut and burnished to care for end-thrust in the arbors.

Ball bearings packed in special lubricant are used wherever heavy power is transmitted. Eight sets of such ball bearings are used.

A special differential arrangement is used to maintain full power on the escapement during winding.




**Cases For these Clocks** are of the finest cabinet work and are regularly carried in stock in selected quarter sawn white oak and distinctively grained gumwood. The backs are made of 5/8" 5 ply veneer and the doors are double locked to make them dust tight. The style No. 13 and No. 16 clocks are furnished regularly with brushed aluminum or satin finish white enamel dial and Arabic numerals as standard but Roman or Silvered dials with etched or raised bronze numerals can be furnished at an increase in cost. Flush type cases can be obtained in place of the surface type at extra cost but no roughing in box is furnished.