

The **Model 750 DC Tachometer-Generator** embodies a permanent magnet field surrounding a rotating armature. The commutator segments are made from a special non-corrosive alloy which has an exceptionally long life. The brushes are of a self-lubricating material and are carried in a self-aligning holder which equalizes the pressure of both brushes. The armature shaft rotates on ball bearings which under normal operation do not need lubrication for 15,000 hours running time or approximately 3 years, whichever comes first. Maximum recommended speed is 5,000 rpm. Brush life is greatest at the lower speeds.

Dust-proof aluminum alloy housing. S.A.E. 7/8" screw type steel mounting with 3/16" drive dog. Used on Diesel and gas engines where a standard S.A.E. screw type tachometer outlet is available. Two binding posts for electrical connection.

Approximate torque: 3.0 oz.-in. starting, 4.0 oz.-in. running (1000 RPM).

SPECIFICATIONS

VOLTAGE OUTPUT AT 1000 RPM	6 Volts $\pm 1\%$ Per 1000 RPM	
ACCURACY	$\pm 1\%$	
EMF LINEARITY 1	$\pm 0.15\%$	
PERMISSIBLE CURRENT DRAIN	50 mA	
MAX RMS VALUE OF AC RIPPLE	2%	
ALLOWABLE END PLAY	.005"	
MAX OPERATING TEMPERATURE	250°F	
INTERNAL RESISTANCE AT 25°C	20 Ω $\pm 2\%$ J2R: 200 Ω $\pm 2\%$	
NUMBER OF BRUSHES	2 Per Set	
COMPOSITION OF BRUSHES	Palladium Silver Alloy	
ARMATURE	12 Bars, 12 Slots	
INSULATION	Insulation Class 105	
HI-POT TEST	500 Volts for 1 Min.	
BEARINGS	Ball	
TEMPERATURE COMPENSATION	0.1% Per 10°C Change	
NORMAL CONTINUOUS SPEED	2000 RPM	
MIN TOP SPEED	100 RPM	
MAX SPEED 2	5000 RPM	
STARTING TORQUE	J2, J2R	3.0 oz. ins.
	M2	1.0 oz. ins.
RUNNING TORQUE AT 1000 RPM	J2, J2R	4.0 oz. ins.
	M2	1.0 oz. ins.
SHAFT DIAMETER	3/16"	
SHAFT CONNECTION	Direct	
SHAFT LENGTH	.47"	
ADJUSTABLE MAGNETIC SHUNT RANGE	$\pm 4\%$	
DIRECTION OF ROTATION EFFECT	$\pm 0.6\%$	
MOUNTING	SAE 7/8" Screw	
ENCLOSURE	Dust Resistant	
MEASUREMENTS	5.61"L x 2.91"H x 3"W	
WEIGHT	1.8 lbs. (.82 kg.). Approximate	



Screw Mounted Tachometer-Generator

Type J2R: Same as Type J2, except internal resistance is 200W.

Type M2: Same as Type J2, except front bearing seal has been eliminated to reduce torque burden. Recommended for use with a low-torque gear box. Approximate torque: 1.0 oz.-in. starting, 1.0 oz.-in. running (1000 RPM).

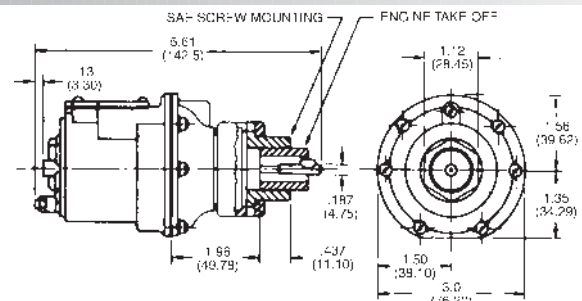
Binding Post Cover Box: Provides protection for the terminals, and has a 1/2" NPT connection for conduit.

Replacement Brush Kit: Metallic leaf brushes are of an alloy which will wear before the commutator bars. Brush replacement is a simple field operation.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
750-9906000	750 Type J2 Tachometer-Generator
750-9906002	750 Type J2R Tachometer-Generator
750-9906001	750 Type M2 Tachometer-Generator
ACCESSORIES	
9933-0143156	Binding Post Cover Box
249302.901	Replacement Brush Kit

DIMENSIONS (INCHES/MILLIMETERS)



BINDING POST COVER BOX

