

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.

Rigid, heavy-duty cast-iron base mounting type housing, with 1/2" diameter shaft supported by heavy duty ball bearings for direct coupling, pulley, spur gear or chain and sprocket drive. Provided with conduit junction box with 1/2" N.P.T. opening suitable for flexible conduit which may be located in anyone of four positions at right angle to shaft. Designed for locations which are subject to mechanical abuse or water spray, such as paper mills and chemical plants where cleaning up by hose is frequent. Housing is gasket sealed.

Approximate torque: 2.0 oz. in. starting, 2.0 oz.-in. running (1000 RPM)

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

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%
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	2.0 oz. ins.
RUNNING TORQUE AT 1000 RPM	2.0 oz. ins.
SHAFT DIAMETER	3/4"
SHAFT CONNECTION	Direct, Geared or Belted
SHAFT LENGTH	1-1/2"
ADJUSTABLE MAGNETIC SHUNT RANGE	\pm 4%
DIRECTION OF ROTATION EFFECT	\pm 0.6%
MOUNTING	Base
ENCLOSURE	Weatherproof
MEASUREMENTS	12.3" L x 4.77" H x 6.13" W
WEIGHT	24.5 lbs (11.1 kgs) Approximate



Splash-Proof Tachometer-Generator

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
750-9905002	750 Type W Tachometer-Generator
ACCESSORIES	
249302-901	Replacement Brush Kit

DIMENSIONS (INCHES/MILLIMETERS)

