

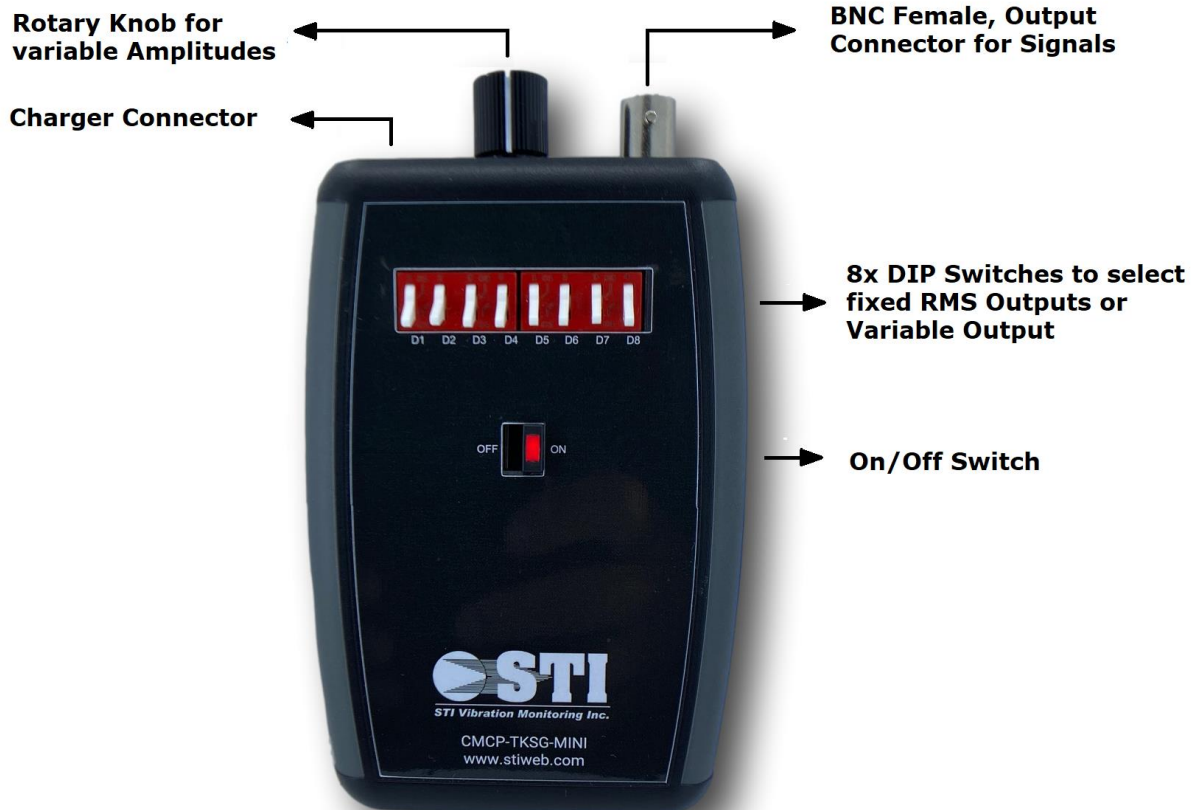
## Instructions for the CMCP-TKSG-M Mini Field Signal Generator Kit

### Kit Includes:

Battery Powered Generator,  
Smart Charger,  
BNC 'T' Adapter,  
6-inch BNC to BNC Cable,  
6-inch BNC to Test Lead Cable,  
Protective Case



### Signal Generator Overview



## Example Setup for Acceleration Measurements

- 1.) Remove Sensor Input (100 mV/g accelerometer) from DUT (Device Under Test)
- 2.) Connect calibrated DMM (Digital Multimeter) or Oscilloscope to the TKSG BNC Output via BNC "T" Adapter.
- 3.) Connect the other end of the BNC "T" Adapter from BNC Output with BNC to Test Lead Cable to the Sensor Input from DUT (in this case a Velocity Transmitter CMCP530-100A-R)
- 4.) Set DIP Switches to Variable Output: all DIP Switches in the Off-Position
- 5.) Turn Rotary Knob for Amplitudes to the 0 position
- 6.) Switch on the Signal Generator
- 7.) Turn Rotary Knob for Amplitudes up
- 8.) Compare the DMM readings with the transmitter readings with the help of the chart below.
- 9.) For example, a 0.25 Volt reading on the DMM correlates to 12.7 mm/s (2.5 g)

Note: As CMCP-TKSG-M is battery powered, wires may be reversed to simulate negative biased signals.

The chart below details the outputs which have been optimized for standard sensor calibrations of 100 mV/g and 100 mV/in/sec (3.94 mV/mm/sec).

CMCP-TKSG Millivolt Output @ 318 Hz										
DIP Switch	D1-On	D2-On	D3-On	D4-On	D5-On	D6-On	D7-On	All-Off	D8-On	
mV RMS	50.0	100.0	150.0	200.0	250.0	500	750	1,000	Variable	
mV Peak	70.7	141.4	212.1	282.8	353.5	707	1,060	1,414		
mV P-P	141.4	282.8	424.2	565.6	707.0	1,414	2,121	2,828		
100 mv/g RMS Accelerometer										
g's	0.5	1.0	1.5	2.0	2.5	5.0	7.5	10.0		
in/sec	0.1	0.2	0.3	0.4	0.5	1.0	1.5	2.0		
mm/sec	2.5	5.1	7.6	10.2	12.7	25.4	38.1	50.8		
100 mv/in/sec (4 mv/mm/sec) RMS Velocity Sensor										
in/sec	0.5	1.0	1.5	2.0	2.5	5.0	7.5	10.0		
mm/sec	12.7	25.4	38.1	50.8	63.5	127.0	190.5	254.0		