

OM-200  
Gasoline Engine RPM Detector

Instruction Manual

1. INTRODUCTION

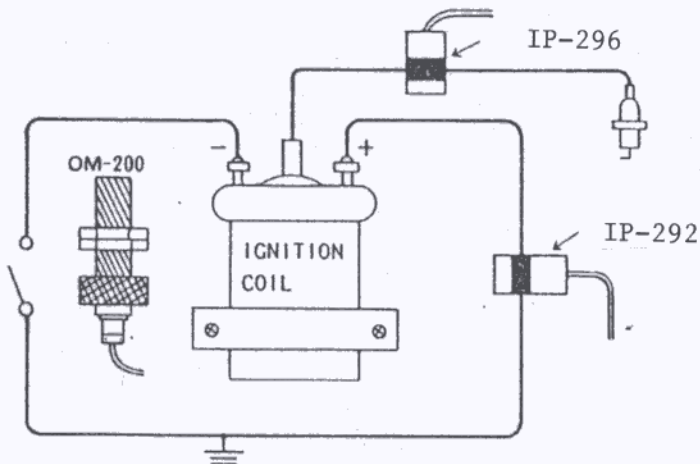
The OM-200 is a gasoline engine rpm detector which uses electromagnetic induction from the ignition coil to enable highly accurate engine rpm measurements.

2. SPECIFICATIONS

Applicable engine type	Gasoline engine
Detection method	Electromagnetic induction
Detection distance	Approx. 100mm
Operating temp. range	0 ~ +80°C
Weight	Approx. 280g

3. OPERATION

3.1 As shown in the figure below, the OM-200 detector is mounted close to and parallel to the engine ignition coil.



3.2 The relationship between the pulse setting of the detector and the measurement range is as follows.

2 Cycle	4 Cycle	Pulse setting	Measurement range
1 cyl.	2 cyl.	1P/R	400 ~ 10,000rpm
2 "	4 "	2P/R	
3 "	6 "	3P/R	400 ~ 7,000rpm
	8 "	4P/R	

The lower limits are determined by the tachometer.

- o For engines having a number of cylinders not listed in the table above, the pulse setting should be the number of cylinders x1 or x0.5 for 2-cycle and 4-cycle engines, respectively. (For tachometers not having a pulse setting, however, care should be taken as rpm values may not be read directly.)

3.3 Operation is the same, even when used with engines having a transistorized ignition.

3.4 For measurements on engines using a flywheel magnet type of ignition, detection of the ignition coil leakage flux is made. If multiple sparks are used, the rpm will be output as a doubled value. In such case, double the pulse setting.

3.5 The detection distance should be set to approximately 100mm as a guide. However, this should be adjusted to obtain a stable tachometer indication.

3.6 The OM-200 detector is used with the following engine tachometers.

CT-6250 Digital Engine Tachometer SE-1520S Analog Engine Tach.

(Note)

Signal cables are separately sold.

MX-005, 5m  
010, 10m  
015, 15m

3.7 The detector and tachometer may be separated up to 15m.

# OM-200 Outer Dimensions

