

## INSTRUCTION MANUAL

### OM-1200 GASOLINE ENGINE RPM DETECTOR

#### WARNING



- Before attaching or removing the OM-1200 GASOLINE ENGINE RPM DETECTOR, make sure that the engine is stopped. Attaching or removing it while the engine is rotating is very dangerous because doing so may cause your hands or cloth to be caught in the rotating section.

#### WARNING



- The temperature of the engine is extremely high immediately after it stops. When attaching or removing the OM-1200 GASOLINE ENGINE RPM DETECTOR, do not touch the high temperature section because doing so may cause burn.

### 1. Introduction

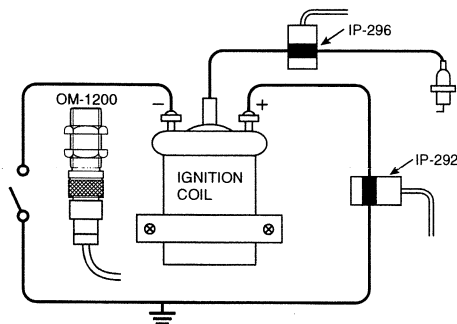
The OM-1200 is a gasoline engine RPM detector which uses electromagnetic induction of the ignition coil to enable highly accurate engine RPM measurements.

### 2. Specifications

Applicable engine type	2-cycle or 4-cycle gasoline engine
Detection method	Electromagnetic induction
Detection distance	Approx. 100 mm
Operating temp. range	0 °C to +80 °C
Mass	Approx. 65g

### 3. Operation

- 3.1 As shown in the figure below, the OM-1200 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.

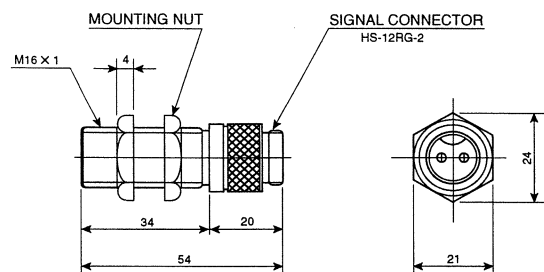
2 Cycle	4 Cycle	Pulse setting	Measurement Range
1 cyl.	2 cyl.	1 P/R	400 to 10,000 r/min
2 cyl.	4 cyl.	2 P/R	
3 cyl.	6 cyl.	3 P/R	400 to 7,000 r/min
	8 cyl.	4 P/R	

The lower limits are determined by the tachometer.

- For engines having a number of cylinders not listed in the table above, the pulse setting should be the number of cylinders x1 for 2-cycle or x 0.5 for 4-cycle engines, respectively. (For tachometers not having a pulse setting, however, care should be taken as r/min 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 100 mm as a guide. However, this should be adjusted to obtain a stable tachometer indication.
- 3.6 The OM-1200 detector is used with the following engine tachometers.  
AR-7240 Analog Engine Tachometer  
CT-6520 Digital Engine Tachometer  
HT-6100 Digital Hand Tachometer  
SE-1620 Gasoline Engine Tachometer  
**Note:** Signal cables are separately sold.  
MX-005 (5 m), MX-010 (10 m), MX-015 (15 m)
- 3.7 The cable length between detector and tachometer may be extended up to 15m.

### OM-1200 Outer Dimensions



#### ■ Omission of Test Qualification Issuance

Since this product has been tested through a series of strict inspections and a complete program of quality control, issuance of the test qualification has been omitted.

#### Warranty

1. This product is covered by a warranty for a period of one year from the date of purchase.
  2. This warranty covers free-of-charge repair for defects judged to be the responsibility of the manufacturer, i.e., defects occurred while the product is used under normal operating conditions according to descriptions in this manual and notices on the unit label.
  3. For free-of-charge repair, contact either your sales representative or our sales office nearby.
  4. The following failures will be handled on a fee basis even during the warranty period.
    - (a) Failures occurring through misuse, mis-operation, or modification
    - (b) Failures occurring through mishandling (dropping) or transportation
    - (c) Failures occurring through natural calamities (fires, earthquakes, flooding, and lightning), environmental disruption, or abnormal voltage.
- \* For repairs after the warranty period expired, contact your sales representative or our sales office nearby.

\*Outer appearance and specifications are subject to change without prior notice.  
HOME PAGE: <http://www.onosokki.co.jp/English/english.htm>

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