

ABSTRACT

PRESSURE SENSOR ASSEMBLY

5 A pressure sensor assembly (10) for measuring the pressure of air in a compression ignition
internal combustion engine, the pressure sensor assembly comprising: an external housing
unit (50); a sensor unit (20) received within the external housing unit (50), the external
housing unit comprising an external surface (22) including a mounting surface (24); a
sensing element (28) mounted within the sensor unit (20) and comprising a pressure-
sensing surface (30); a substrate (40) upon which the mounting surface (24) is mounted; an
10 air passage (54) to enable air to impinge on the sensing element (28), in use; and a filling
passage (68) to enable introduction of an encapsulation material (84) onto the sensor unit
(20), during assembly. The encapsulation material (84) covers at least a part of the external
surface (22) of the sensor unit (20) but does not cover the pressure-sensing surface (30) of
the sensing element (28) which remains directly exposed to air within the air passage (54).

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[FIGURE 3]