

# Mass Air Flow Sensor

Emerging Infectious Diseases Trends in Aerospace Engineering Official Gazette of the United States Patent and Trademark Office Understanding the Mass Air Flow Sensor Bentley BMW 5-Series 1989-95 Service Manual Volkswagen Fox Service Manual New Sensor for Measurement of Low Air Flow Velocity. Phase I Final Report S.A.E. Transactions BOSCH Automotive Handbook Lasers and Electro-optics for Automotive Manufacturing New Sensor for Measurement of Low Air Flow Velocity Chilton's Import Car Repair Manual, 1986 IEEE Solid-State Sensor Conference Volvo 240 Service Manual 1983 Through 1993 Volkswagen Passat Sensors and Actuators Ford Fuel Injection & Electronic Engine Control Chilton's Repair & Tune-up Guide--Fiat, 1969 to 1981 Compressed Air Haynes Mitsubishi Pick-Up and Montero 1983-1993 Guozhu Liang Kathleen Kropp Bentley Publishers Robert Bentley, inc Society of Automotive Engineers Robert Bosch GmbH H. M. Hashemian Bentley Publishers S. Middelhoek Charles O. Probst Carl Canfield Motorbooks International

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the project described here is the phase i feasibility study of a two phase program to integrate existing technologies to provide a system for determining air flow velocity and direction in radiation work areas basically a low air flow sensor referred to as a thermocouple flow sensor has been developed the sensor uses a thermocouple as its sensing element the response time of the thermocouple is measured using an existing in situ method called the loop current step response lcsr test the response time results are then converted to a flow signal using a response time versus flow correlation the phase i effort has shown that a strong correlation exists between the response time of small diameter thermocouples and the ambient flow rate as such it has been demonstrated

that thermocouple flow sensors can be used successfully to measure low air flow rates that can not be measured with conventional flow sensors while the thermocouple flow sensor developed in this project was very successful in determining air flow velocity determining air flow direction was beyond the scope of the phase i project nevertheless work was performed during phase i to determine how the new flow sensor can be used to determine the direction as well as the velocity of ambient air movements basically it is necessary to use either multiple flow sensors or move a single sensor in the monitoring area and make flow measurements at various locations sweeping the area from top to bottom and from left to right the results can then be used with empirical or physical models or in terms of directional vectors to estimate air flow patterns the measurements can be made continuously or periodically to update the flow patterns as they change when people and objects are moved in the monitoring area the potential for using multiple thermocouple flow sensors for determining air flow patterns will be examined in phase ii

beginning in 1985 one section is devoted to a special topic

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this report provides key results of a six month feasibility study to develop and test a new

sensor that measures ambient air flow velocity and direction for health physics applications in nuclear facilities using a conventional thermocouple as its sensing element the sensor developed in this study enables nuclear facilities to determine where to place air samplers to sample airborne radioactive material that radiation workers might inhale the authors demonstrate that thermocouple flow sensors can be used successfully to measure low air flow rates that cannot be measured with conventional flow sensors

vehicle maintenance

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