

Mass Air Flow Sensor

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this book collects the selected paper presented at 2024 4th international conference on mechanical aerospace and automotive engineering which is held in beijing china on november 8 10 2024 it features the latest breakthroughs and advancements in aerospace engineering the scope of topics encompasses but is not limited to

aerospace manufacturing and maintenance aerodynamics aeroelasticity applications of uav uas and mav flight system dynamics and controls aerospace propulsion mechanical and automotive engineering on aerospace among others it provides valuable resource for researchers and practitioners in academia and industry

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

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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

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