


Temperature

EXERGEN'S NON CONTACT INFRARED TEMPERATURE SENSORS HELP ENSURE ACCURATE RESULTS IN HORTICULTURAL RESEARCH

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WATERTOWN, MA and ZIJTAART, the Netherlands --- Exergen Global announces its micro IRT/c temperature sensors are being employed by Netherlands-based Plant Lighting B.V. in its research aimed at reducing the artificial energy required to cultivate Phalaenopsis orchids in greenhouses. Orchid production, a \$600 million industry in the Netherlands, requires a significant amount of energy for artificial light, heating and cooling. Through its research, Plant Lighting hopes to find new ways to reduce energy needs while increasing plant output. Plant Lighting had previously used thermocouples in its research, but reported that the leaves' diurnal ('daily') movements prevented the sensors from maintaining the constant contact required for accurate leaf temperature measurement. Moreover, the many small pores ('stomata') used by leaves for transpiration and CO2 uptake, may differ in opening from one position on the leaf to the other. These differences can cause small local variations in leaf temperature, and therefore can require many thermocouples to accurately measure the leaves' surface. Exergen's non-contact micro IRT/c proved to be better suited for the research because they are able to measure a larger area of the leaf and provide the accuracy and reliability required for the research.


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