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The Refractive Index Measurement Device for Continuous and Autonomous Irrigation Monitoring

In this work, a system based on time-domain refectometry for continuous and pervasive monitoring of soil water

a crop water content profle can be retrieved along the length of the SE crop. By connecting the TDR-based monitoring

the crop, thus promoting precision farming and improving e f ciency irrigation fruit. To demonstrate the feasibility of the proposed monitoring solution, a dedicated hardware + software platform was developed and the TDR-based system

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ns to 50 μS. is instrument has powerful built-in electronics and is powered directly through the laptop's USB port [10]. Like the stretched SE, the sensing section consists of RG59 coaxial wire and cable, which are mutually insulated and parallel to each other. e axonometric section. In coaxial cable, the inner conductor is made of copper and has a diameter of 1.6 mm; the insulation is made of polyethylene and