

## INNOVATIVE SOLUTIONS FOR FROST PROTECTION



Growers use sprinkler irrigation to **protect their crops from frost**. Sprinklers are very effective under certain conditions, but they can also cause damage if used at the wrong time.

A centralised control system that is able to read and **immediately process data from climate sensors** helps identifying correct water application times and durations.

Today, an effective frost protection needs both high performance sprinklers and a responsive automation system.





## A COOL MATCH



Nowhere is a demand for a reliable irrigation sprinkler more than in frost protection.

Thanks to specially adapted impact technology, **Perrot ZS sprinklers** can work perfectly at temperatures even as low as -10°C, without freezing assuring high distribution uniformity and maximum yield protection.



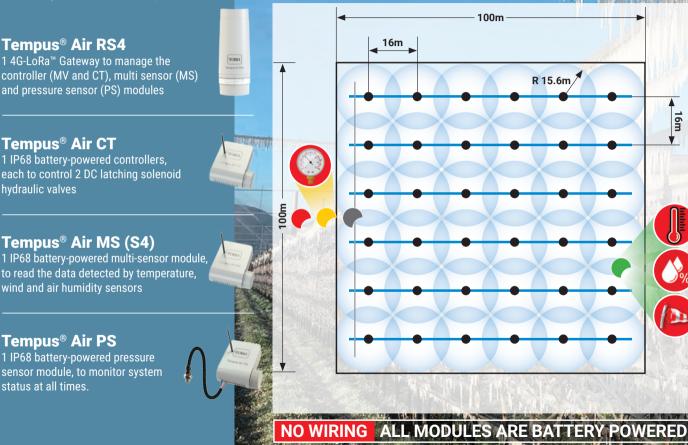
Using pioneering LoRa radio technology, **Toro Tempus® Air** allows you to you create an affordable and fully automated water delivery solution – all without wires.

Connecting to wi-fi or a secure broadband cellular network, it brings a wide range of data and functions direct to your device, improving your ability to monitor field conditions and **react to changing conditions**.

Example of a 1-ha frost protection system managed by a centralised Tempus Air system consisting of:

hydraulic valves

status at all times.



Example layout design showing ZS 30

full-circle 'frost protection' sprinklers

## THE PROFESSIONALS OF

Irrigation systems for all terrains. Quality and efficiency 'Made in Germany'.



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