



**TORO**®

**SOLUTIONS FOR PRECISION IRRIGATION**



## SOLUTIONS FOR PRECISION IRRIGATION



In modern viticulture, drip irrigation is a particularly important production element that must be used to control production and improve its quality. This is possible by using a pressure-compensating dripline such as **Neptune® PC** which allows a **precise and uniform distribution** combined with a centralised control system, such as **Tempus® Air**, which allows **managing irrigation operations** based on the phenological phases and in relation to the **data collected by the field and climate sensors**.

### The Drip's Advantages

- Water stress management allows constant production over time, both in terms of quality and quantity
- In dry years, elimination of water stress and protection of production
- Optimal distribution of nutritional elements thanks to the adoption of fertigation practices
- Uniformity of cultivation and production
- Better organoleptic quality of the grapes.

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### Automation's Advantages

- Complete management of the system (hydraulic valves, pumps, filters, fertigation and many other components)
- Real-time monitoring of important environmental parameters in order to optimise/automate the decision-making process
- Risk reduction and full control of your irrigation schedule
- Optimisation of the use of company resources
- Ease of management of the system and of the farm as a whole.

For a total area of **16 ha** of vineyards, typically it will be possible to have 8 irrigated blocks of 2 ha: **8 hydraulic valves** which can be managed remotely by a centralised Tempus® Air system consisting of:

### TEMPUS® AIR BS

1 3G-LoRa™ Gateway to manage the controller (MV and CT), multi sensor (MS) and pressure sensor (PS) modules

### TEMPUS® AIR MV

1 IP68 battery-powered controller, to control  
1 Master DC latching solenoid valve

### TEMPUS® AIR CT

4 IP68 battery-powered controllers, each to control 2 DC latching solenoid hydraulic valves

### TEMPUS® AIR MS

2 IP68 battery-powered multi-sensor modules, to read the data detected by 4 sensors choosing among temperature, soil moisture, air humidity, wind, rain and more

### TEMPUS® AIR PS

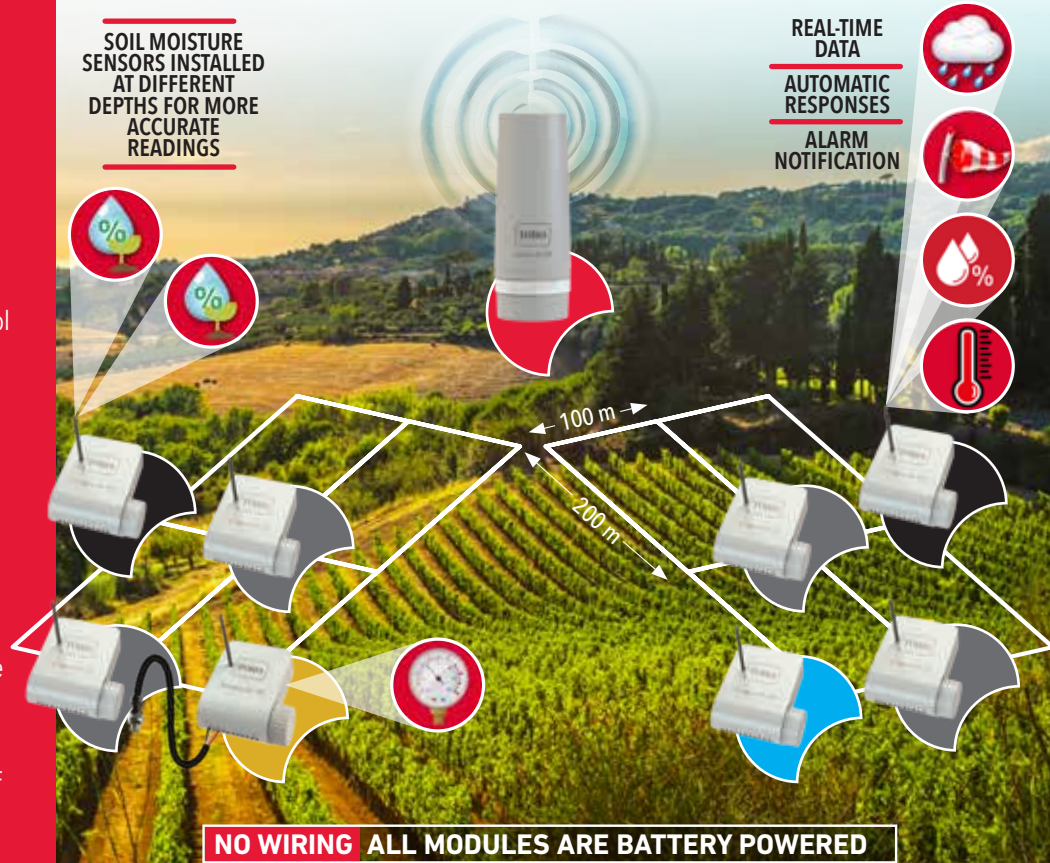
1 IP68 battery-powered pressure sensor module, to monitor the correct operation of the system at all times

## Control your system remotely when you want, from wherever you want.

# TORO®

SOIL MOISTURE  
SENSORS INSTALLED  
AT DIFFERENT  
DEPTHS FOR MORE  
ACCURATE  
READINGS

REAL-TIME  
DATA  
AUTOMATIC  
RESPONSES  
ALARM  
NOTIFICATION



**NO WIRING ALL MODULES ARE BATTERY POWERED**



**TORO**<sup>®</sup>

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