



# AUTOMATION

THE FUTURE OF AGRICULTURE



WI FI

4G

PRESSURE TRANSDUCER

MULTI-SENSOR

MAIN VALVE

BASE STATION

CONTROLLER UNIT

## TEMPUS FAMILY OF PRODUCTS

For more information including user manual, help guides, training videos and more, visit [toro.com/tempus-ag](http://toro.com/tempus-ag)

# From pressure and water flow to humidity and soil temperature: Take full control, take automated control.



**TEMPUS-AG-CT**

A waterproof battery-powered wireless irrigation controller capable of operating up to 6 latching solenoids.

DATA ACQUISITION	<b>1, 2 or 6</b> stations
SENSOR CAPABILITY	Pressure Switch, Flow Meter and Rain Sensor
	<b>4</b> irrigation schedule p/station
	Continuous irrigation or cycle and soak
	Time in seconds
	Irrigation by time or volume
	Fertigation capability
RANGE (Radius)	<b>800m or 2,600ft</b>
MANAGED VIA	
CONNECTION	<b>LoRa</b>
RESISTANT	Waterproof (IP-68)
POWER SUPPLY	9V



**TEMPUS-AG-PR**

A waterproof battery-powered wireless irrigation device for pressure measurement.

DATA ACQUISITION	Pressure values
SENSOR CAPABILITY	Pressure up to 232 psi
RANGE (Radius)	<b>800m or 2,600ft</b>
MANAGED VIA	
CONNECTION	<b>LoRa</b>
RESISTANT	Waterproof (IP-68)
POWER SUPPLY	9V



**TEMPUS-AG-MS4**

A waterproof battery-powered wireless irrigation data acquisition device for a variety of sensors.

DATA ACQUISITION	<b>3</b> sensors plus temperature
SENSOR CAPABILITY	Flowmeter, Rain sensor, Moisture sensor, Anemometer, Pluviometer, Air humidity sensor, Tensiometer, Temperature
RANGE (Radius)	<b>800m or 2,600ft</b>
MANAGED VIA	
CONNECTION	<b>LoRa</b>
RESISTANT	Waterproof (IP-68)
POWER SUPPLY	9V

Option for  
**TEMPUS-AG-MS1**



**TEMPUS-AG-4G**

A solar powered (or wall connected) base station that connects all controllers and devices to the cloud.

POWER SUPPLY	(24VDC) (110-230V)
ASSOCIATE DEVICES	up to <b>25</b> AG-CT • AG-MV • AG-PR • AG-MS
RANGE (Radius)	<b>800m or 2,600ft</b>
MANAGED VIA	
CONNECTION	<b>4G LoRa</b>
RESISTANT	Waterproof housing

## EASY HARDWARE INSTALLATION

- No pedestal needed
- 9V battery facilitates installation
- Weather/water proof unit



**TEMPUS-AG-MV**

A waterproof battery-powered wireless irrigation controller capable of storing 200 start times from different AG-CT's. Ideal to control main valve.

INPUTS	<b>1</b> main valve station
SENSOR CAPABILITY	Pressure Switch, Flow Meter
RANGE (Radius)	<b>800m or 2,600ft</b>
MANAGED VIA	
CONNECTION	<b>LoRa</b>
RESISTANT	Waterproof (IP-68)
POWER SUPPLY	9V



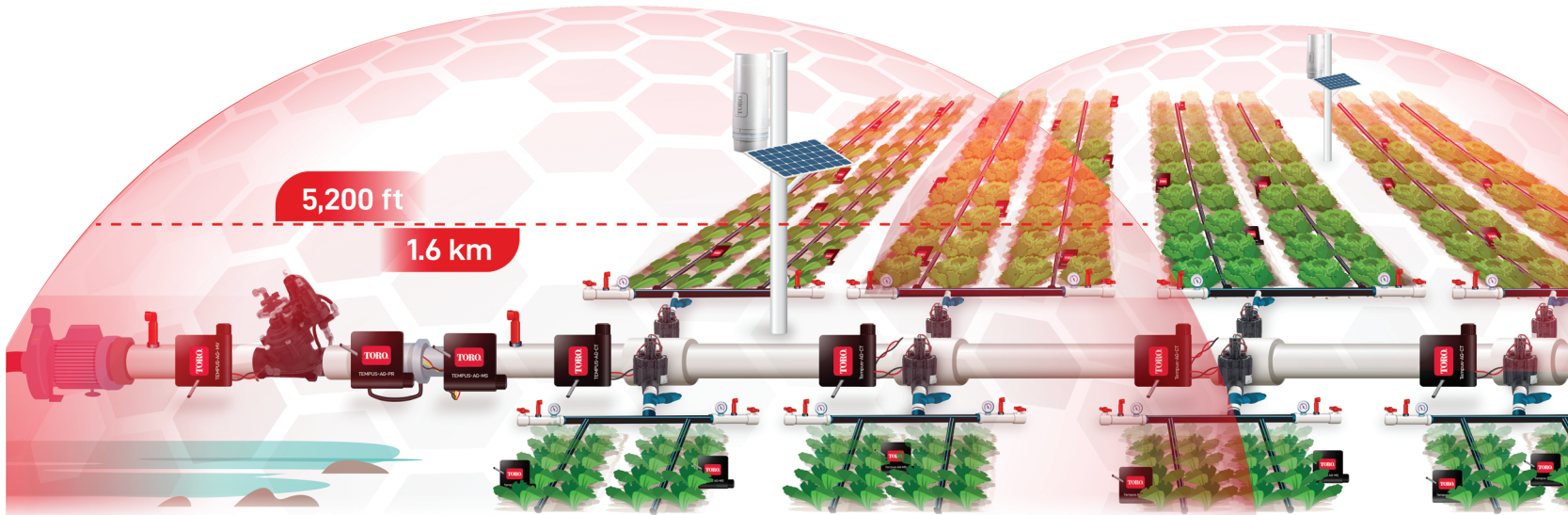
**TEMPUS-AG-WF**

A Wi-Fi base station that connects all controllers and devices to the cloud.

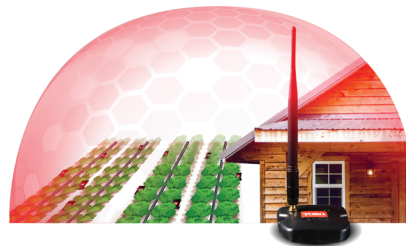
POWER SUPPLY	(110-230V)
ASSOCIATE DEVICES	up to <b>30</b> AG-CT • AG-MV • AG-PR • AG-MS
RANGE (Radius)	<b>800m or 2,600ft</b> Extended antenna as an option
MANAGED VIA	
CONNECTION	<b>Wi-Fi LoRa</b>



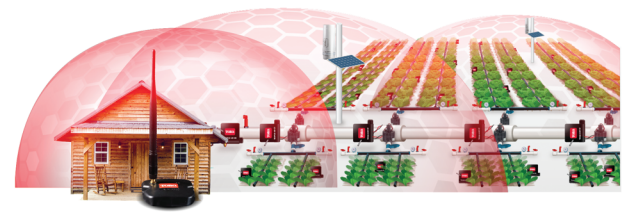
# Modular system that grows with your needs.



**NO BASE STATION,  
JUST SMART PHONE**



**WI-FI  
BASE STATION**



**MULTIPLE BASE  
STATIONS**

**PROs**

- Cost effective (no data plan)
- Build confidence on Automation
- Automation of valves

**CONs**

- No LoRA bubble, thus no system automation
- No sensor feedback to platform
- Walk to controller to change the program

**PROs**

- Cost effective (no data plan)
- Build confidence on Automation
- LoRA bubble for system Automation

**CONs**

- Small system
- Limited to Wi-Fi location availability

**PROs**

- Full Automation
- Mix of 4G and Wi-Fi base stations ok
- "Unlimited" range (many bubbles)

**CONs**

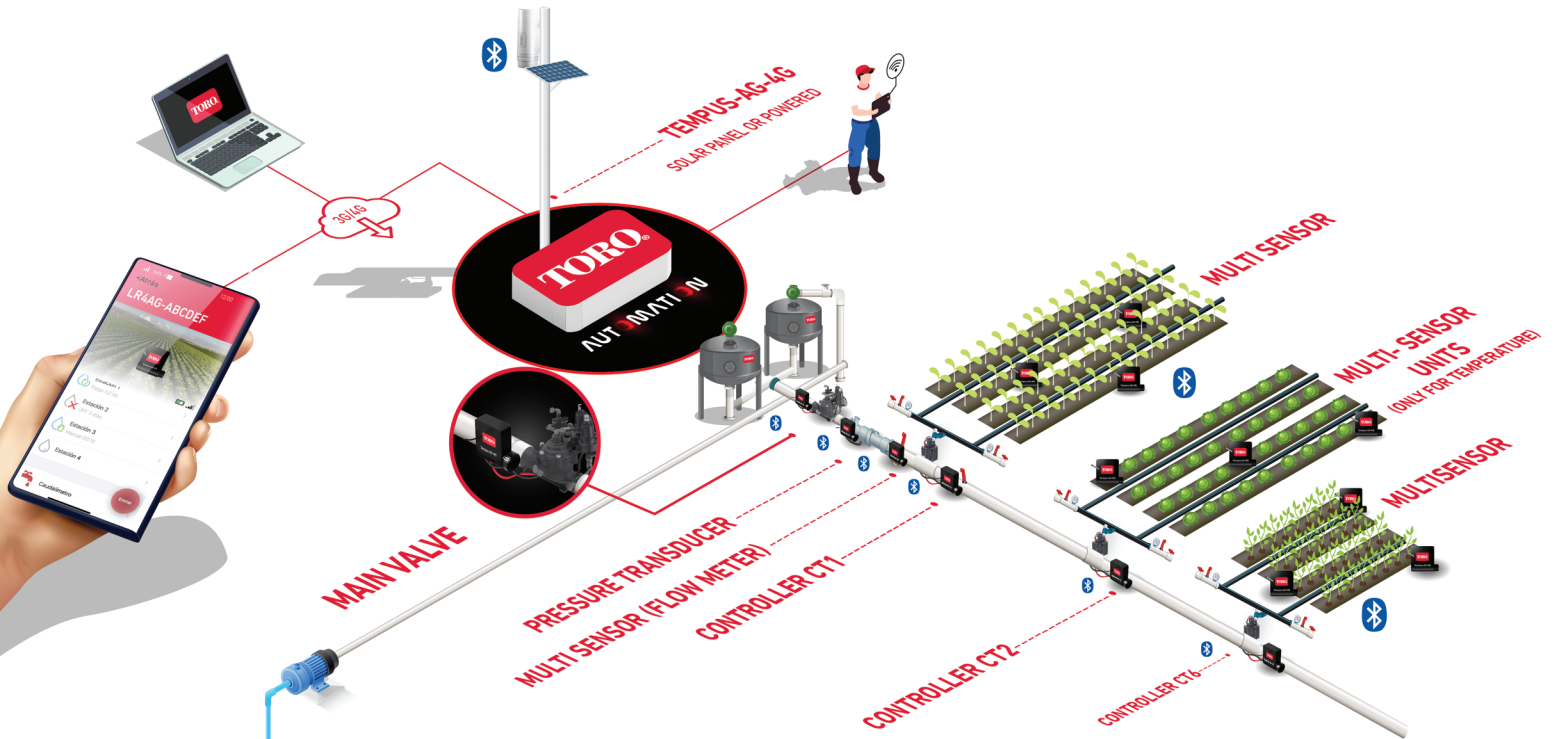
- NA



**AUTOMATION**


# Full control of your field from the palm of your hand.


**TORO SOLUTION: SAVINGS IN TIME, LABOR AND MONEY**



## DATA PLAN

- **ONE FLAT FEE FOR ALL YOUR NEEDS**

Option 1: communication every hour 


Option 2: communication every 15 minutes 

- **STILL THE SAME FLAT FEE IF SENSORS ARE ADDED, AS MANY AS YOU WANT**



- **FEE IS BASED ON NUMBER OF 4G BASE STATIONS**

1 SIM card per 4G base station → 

← There is no fee for a wi-fi base station (no SIM Card) 

- **One more thing:** Plan also includes manual commands and system synchronization inquiries embedded in the flat fee\*

\* Usage policy in place for more than 365 inquiries in a year, otherwise no additional charges

Note: Bluetooth commands do not count towards data plan usage

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**AUTOMATION**

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