

# SmartPID smart thermostat fermentation control

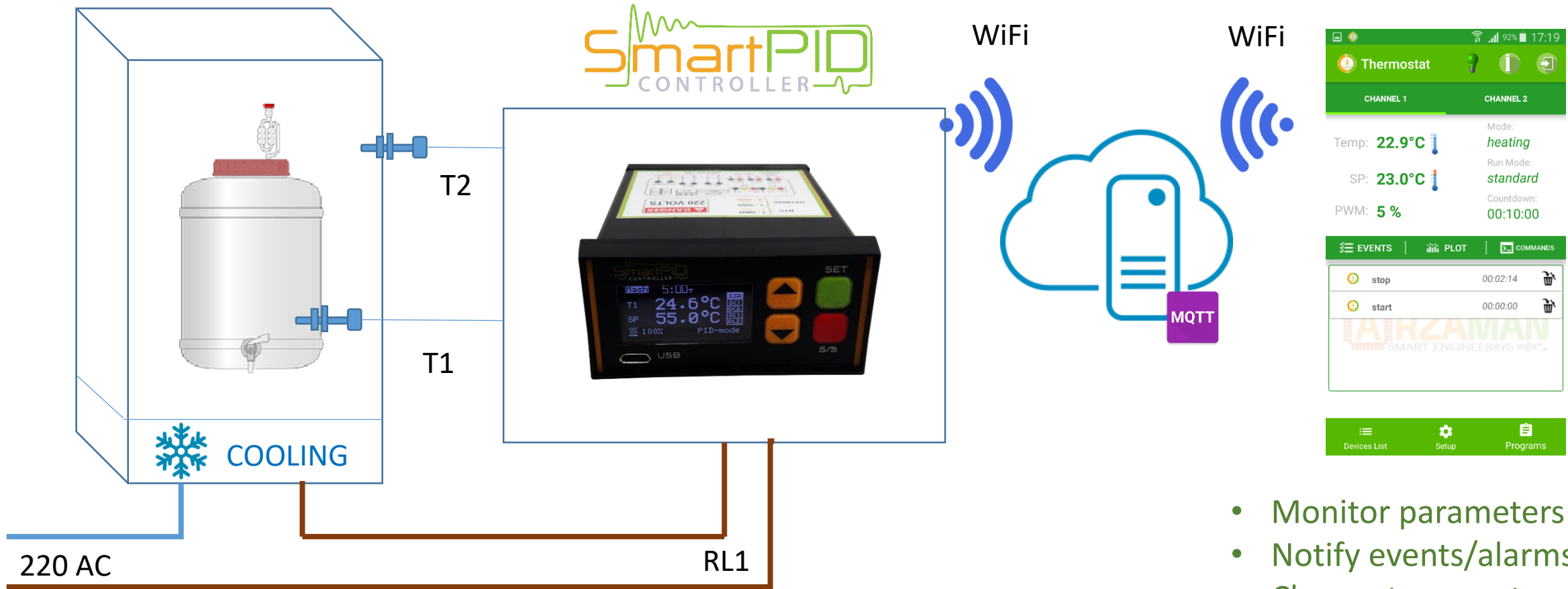
## Smart Thermostat App



- Dual independent control channels
- ON/OFF and PID control algorithms
- Configurable hysteresis and fridge delay
- 10 profiles definition (ramp/soak period)
- WiFi connection to remote MQTT server
- Remote control and monitor via android app

# Smart Thermostat Application – Single Cooling System

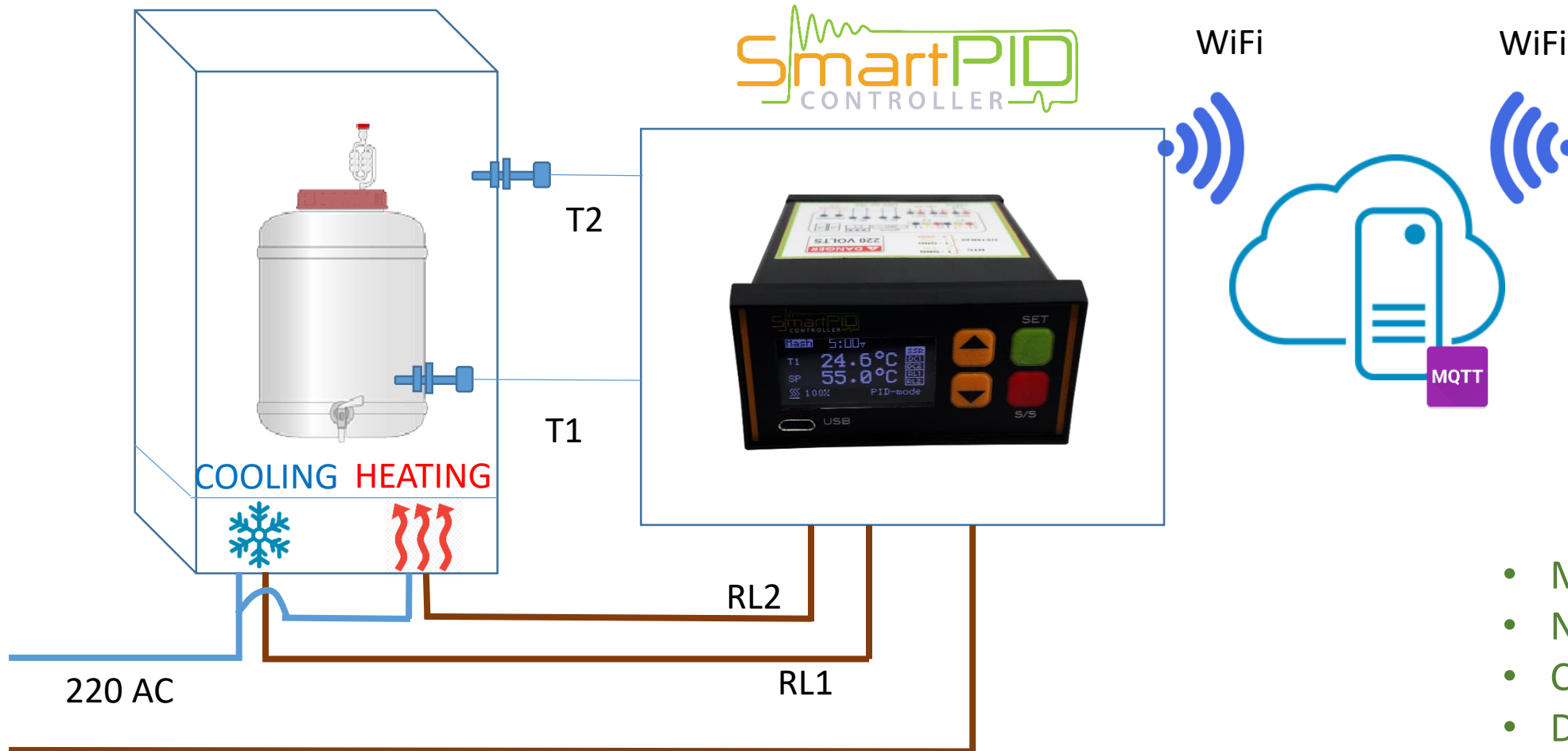
- T1 beer temperature controls fridge via relay RL1
- T2 fermentation chamber temperature for monitor



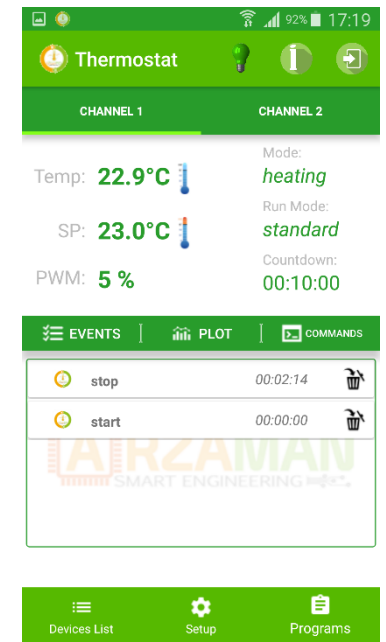
- Monitor parameters
- Notify events/alarms
- Change temperature
- Define profiles

## Smart Thermostat Application – Thermostatic (cooling+heating)

- T1 beer temperature controls fridge + heating element via relay RL1 and RL2
- T2 fermentation chamber temperature monitor



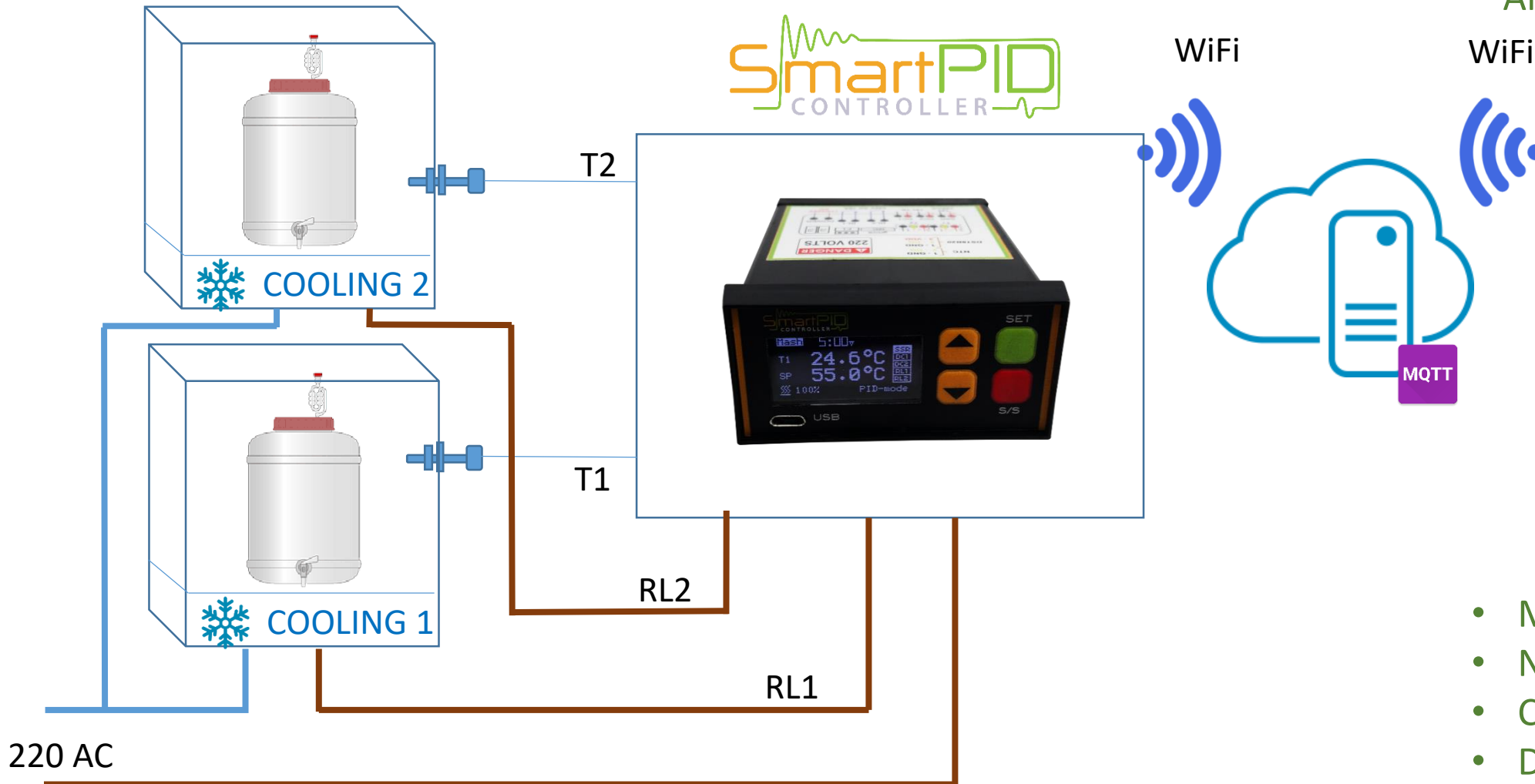
## Android Smartphone APP



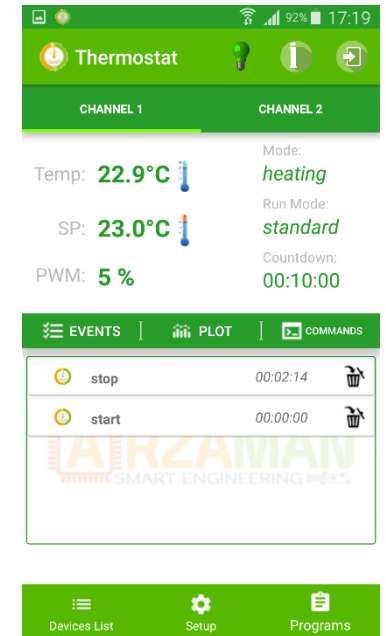
- Monitor parameters
- Notify events/alarms
- Change temperature
- Define profiles

# Smart Thermostat Application – DUAL Cooling System

- T1 temperature controls fridge1 via relay RL1
- T2 temperature controls fridge2 via relay RL2



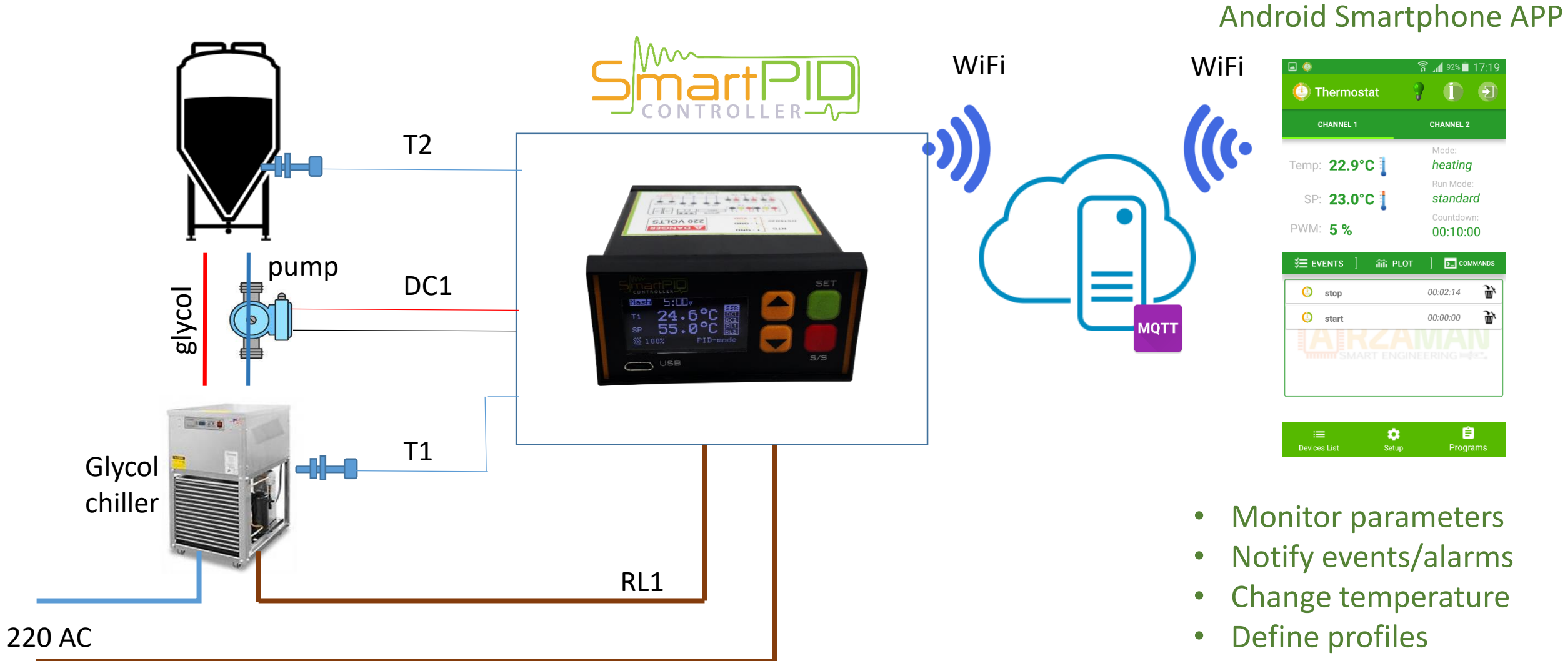
## Android Smartphone APP



- Monitor parameters
- Notify events/alarms
- Change temperature
- Define profiles

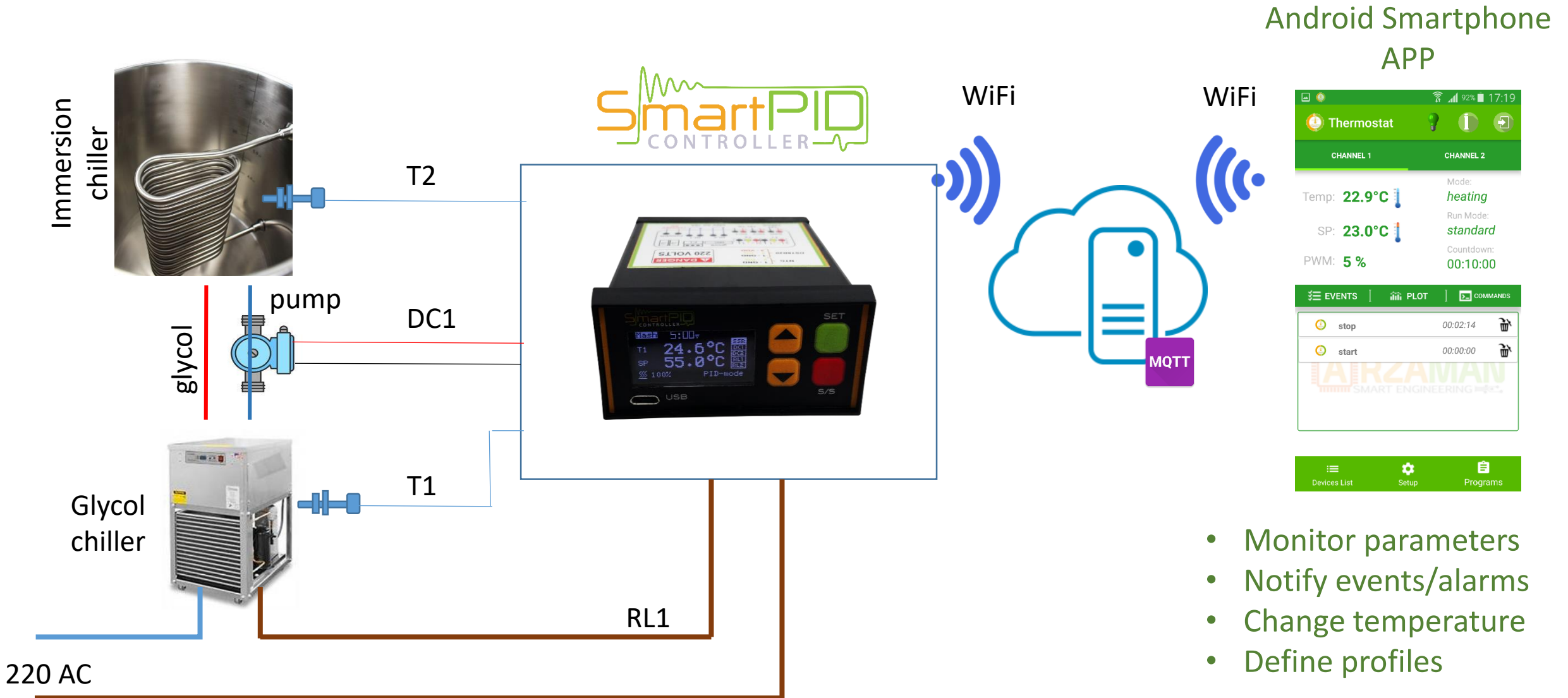
# Smart Thermostat Application – Glycol Chiller + Recirculating pump + jacketed fermenter

- T1 controls glycol chiller temperature via relay RL1
- T2 beer temperature controls recirculating pump via DC1 (or RL2)



# Smart Thermostat Application – Glycol Chiller + Recirculating pump + immersion chiller

- T1 controls glycol chiller temperature via relay RL1
- T2 beer temperature controls recirculating pump via DC1 (or RL2)



- Monitor parameters
- Notify events/alarms
- Change temperature
- Define profiles