

CLIMATE CONTROL



Colling Cattle Farm System

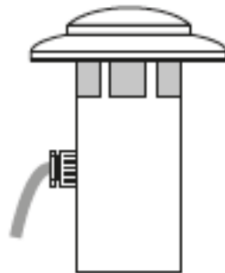
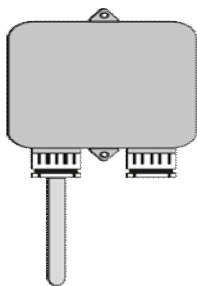
Climate computers Cattle Farm

- TEMPERATURE (MEASURING)
- HUMIDITY (MEASURING)
- FANS (VENTILATION)
- SPARY COOLING
- ALARM
- COMMUNICATION



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Climate computers Cattle Farm



Input assumptions :

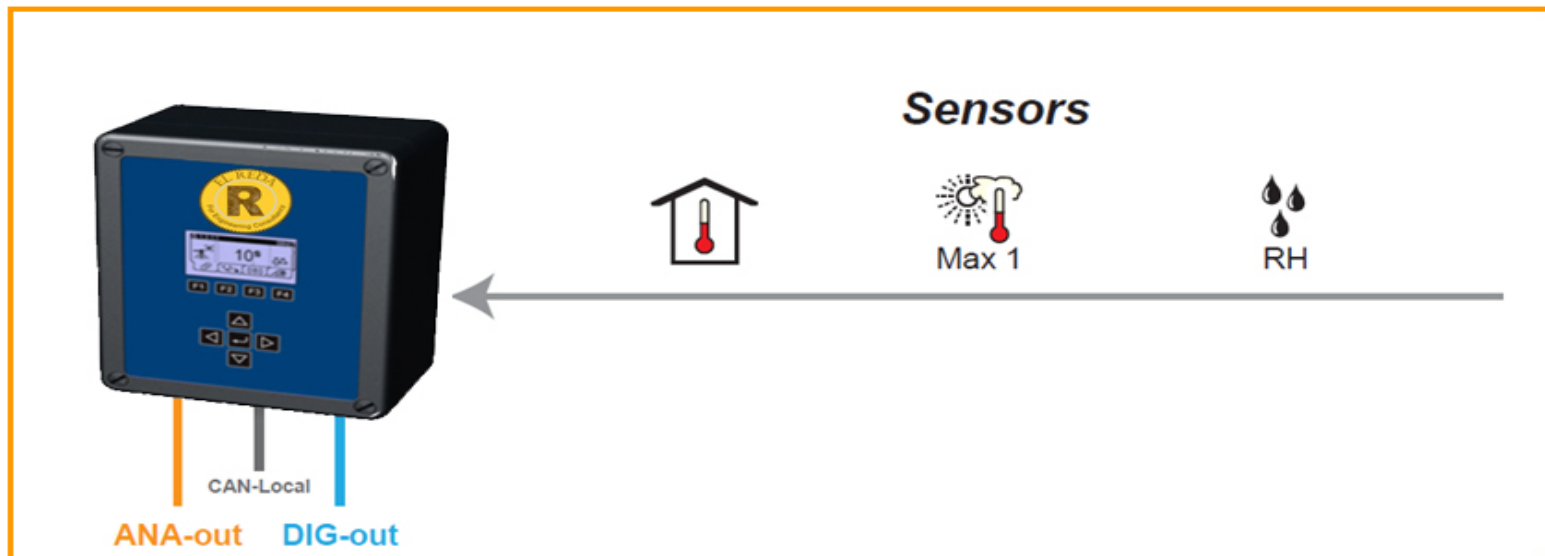
- Temp sensors (internal)
- Temp sensors (external)
- RH sensor

Output assumptions :

- Ventilation Fans Group A
- Ventilation Fans Group B
- PUMPS (Spray cooling)

Requirements for Cattle Cooling:

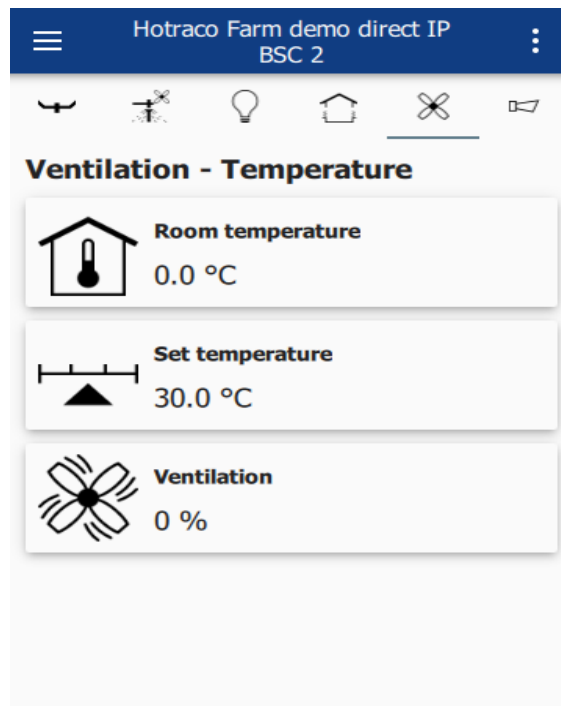
- ❑ Control climate based on temperature (T) & relative humidity (Rh)
- ❑ Use both values to control fans and spray cooling
- ❑ Add intelligence as time of day, seasonality etc.
- ❑ Connectivity via an app could be useful



Cattle Cooling (Ventilation):



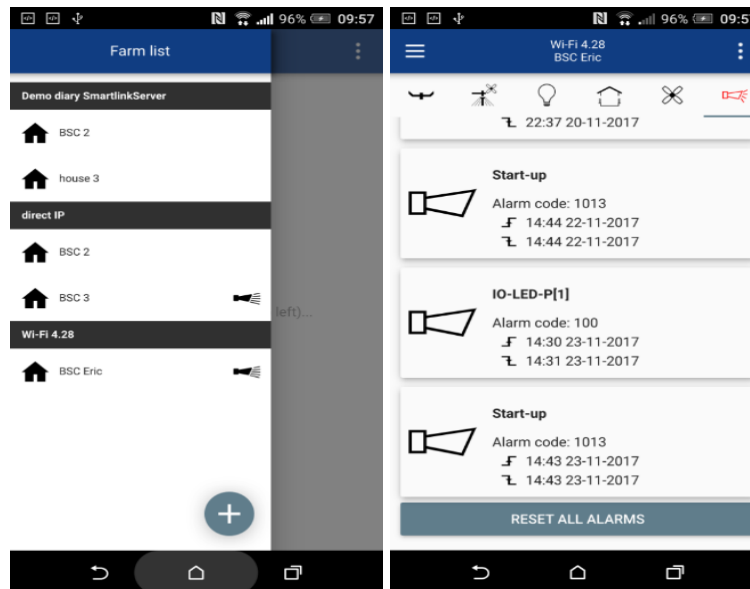
- One screen for the Spray cooling and Fan ventilation : (split Spray and Fans recommended)
- We can operate fans only without spray or part from fans only according to climate



User profile:

(It may be helpful to control barns remotely)

- As a customer I want to be able to check the status of the ventilation no matter where I am so I know that everything is OK.
- As a customer I want to receive messages in case of alarms/warnings so I can determine the priority of the message and intervene when needed

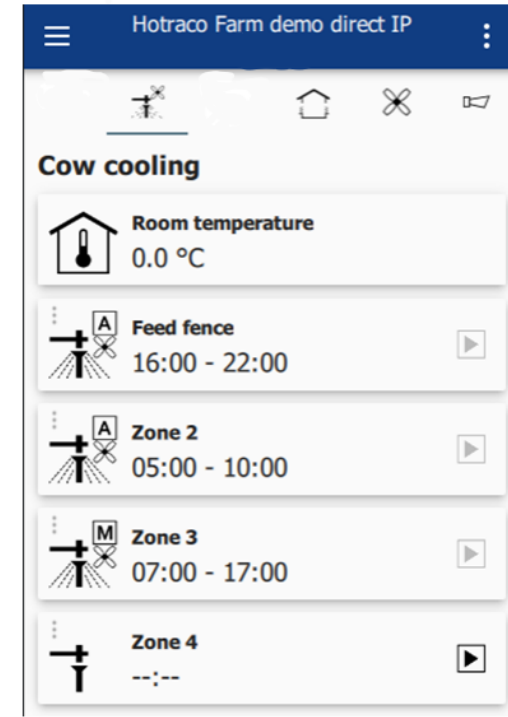
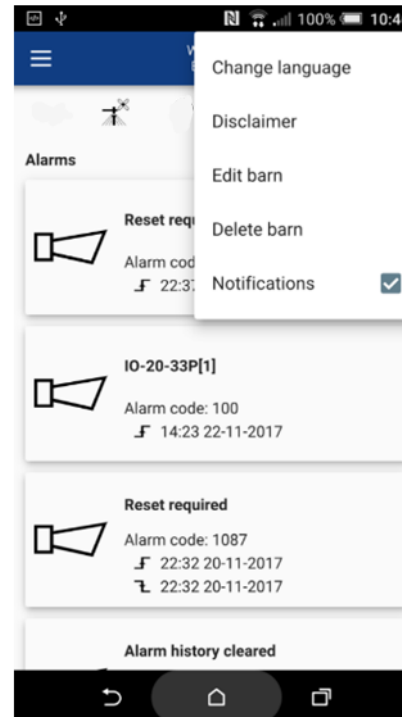
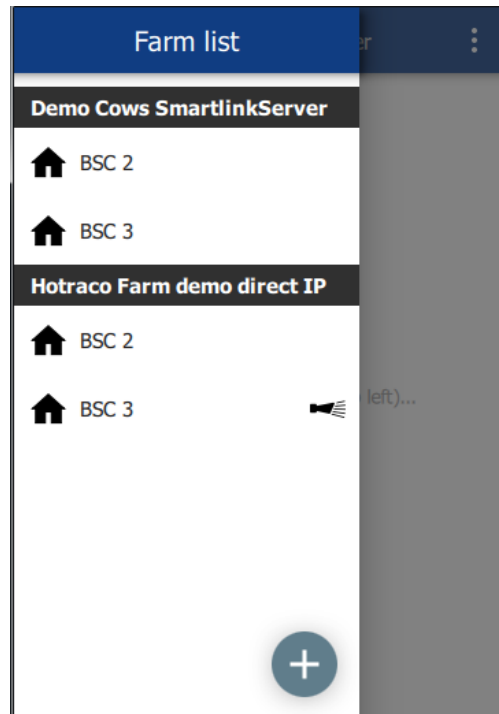


Cattle Cooling

Farm A



Farm B



Cattle cooling:



- One screen for the Cow cooling:
 - *As a customer I want* to be able to monitor the Temperature and/or THI and status of the Cow Cooling system so I know my animals are comfortable for an optimum performance
 - *As a customer I want* to receive alarms/warnings so I can intervene and provide maximum animal comfort to maintain maximum performance.
 - *As a customer I want* to be able to label the “Cow cooling areas” so I instantly know the position of this Cow Cooling system for the optimum comfort during the daily routine (time slots) of the animals. (e.g. milking parlor, Cubicles, Feed fence, etc)