

Weather Station



for Vision 2 and Dream 2 Controllers



*The **Dream 2 WEATHER STATION** allows the user to record and monitor meteorological parameters and condition the system operation on actual values.*

*The **Dream 2 WEATHER STATION** based on meteorological parameters has the ability to enable **Frost Protection, Rain Delay** and irrigate by **Evapotranspiration**.*

The information transferred from the **Dream Weather Station** to the **Dream Controller** includes the following:

- Barometric Pressure
- Wind Direction
- UV Radiation
- Outside Temperature
- Solar Radiation
- Evapotranspiration
- Outside Humidity
- Daily Rain
- Dew Point
- Wind Speed
- Rain Rate

■ ***Irrigation by Evapotranspiration:***

The Evapotranspiration is calculated by the Weather Station based on the measured parameters accumulated during the last day. Each midnight the value of the day before is cleared and the new day's value is started to be accumulated. The DREAM 2 stores the data of the Evapotranspiration of the last 16 days and uses the information for calculating the amount of water to be irrigated by the programs defined to irrigate by ET. The calculation takes into consideration, the accumulated ET since the last irrigation, multiplied by the area covered by the particular valve and by the specific factor that represents the needs of the particular crop.

■ ***Rain Shutdown:***

The system can be asked to shutdown all irrigation activities when the daily accumulated rain reaches a predefined limit. The user may define the desired limit and the number of days to keep the irrigation shut down.

The system keeps a track of the total number of days that the irrigation was shut down due to rain.

■ ***Frost Protection:***

The system offers a Frost Protection mechanism based on the Dew point calculated from the measured Outside Temperature and Outside Humidity. The farmer is requested to define the Critical Plant Temperature below which the crop may suffer frost damage. According to the Critical Plant Temperature and the Dew Point, the system decides about the Turn On Temperature at which the Frost Protection program should be started in order to make sure that the protection becomes effective before the temperature drops to the Critical Plant Temperature.



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