Ridder MTV

Measuring the climate conditions

Accurately measuring the climate conditions in a medicinal production facility is essential in order to create the ideal growing environment. Growers needs to be able to rely on their measuring equipment without spending too much time on maintenance. For measuring the climate inside the production facility a range of sensor units are for measuring the temperature and humidity level to keep in control over medicinal products during production.

The MTV series consists of four types of sensor units: the MT Active, MTV Active, MTV-E active and MTV-Go!. The housing comes in two versions: ventilated and unventilated (MTV-Go!). All sensor units are tested under severe conditions to ensure reliable measurements at all times. The special housing ensures excellent protection against sunlight.

- Reliable and accurate CO2 measurements
- Constant internal reference
- No condensation
- Reliable humidity measurements under harsh conditions

MT Active

This robust sensor unit provides accurate temperature readings. The high-grade stainless steel sensor is durable and designed to withstand harsh environments. The MT/MTV Active is equipped with 'active' sensors that have a current output. That means that a specially designed transducer board in the sensor unit converts measurements into an output signal with the highest possible accuracy for extremely reliable measurements.



Option

- Upgradable with CO2 control sensor

MTV Active

The MTV Active uses a dry-wet bulb sensor, also called a sling psychrometer. Because of its high reliability, this method of measuring moisture has been used for over 150 years and is still one of the most commonly used methods in horticulture today. The MTV Active can be used in any environmental conditions in the greenhouse, and it is highly resistant to plant protection products. The sensor unit performs the wet bulb measurements using specially designed 'sleeves'. A unique feature of this sensor unit is the level measurement in the water container. This ensures that you'll never forget to refill the container; the unit will warn you when the water has nearly run out.

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MTV-Go!

accurately measures the temperature and relative humidity inside the greenhouse

The MTV-Go! is an unventilated electronic sensor unit that is used in combination with the Ridder HortiMaXGo!. The fanless housing has been designed to ensure accurate measurements at all times, even if the unit is exposed to direct sunlight. The conical design creates a natural air flow, which prevents the unit from heating up and guarantees that the readings are continually updated. The absence of a fan means that the sensor unit has no moving parts and attracts less dirt. Just like the MTV-E, the MTV-Go! is practically maintenance-free. The measurement signal is processed digitally, ensuring the highest possible resolution.

Important to know is that one MTV-Go! is required for each greenhouse department zone.

Option:

- Upgradable with CO2 control sensor

MTV-E Active:

a low-maintenance sensor unit

In the late nineties, Ridder was the first company to introduce electronic measurements in the horticulture sector. This is a method of taking measurements that requires hardly any maintenance to the sensor unit. The main advantage is that the unit is not fitted with a water container. Electronic sensors have been continually refined over the years. They are extremely accurate and are widely used. Although the sensors require little maintenance, they should be replaced every year. This is a very simple process. Electronic sensors can be used for most types of crops, but are less suitable for greenhouses where a lot of chemicals are applied or the humidity level stays above 90% for long periods of time. In very high humidity conditions (i.e. above 95%), there is a risk of saturation and this can temporarily affect the accuracy of the sensor readings.