

# GRISAN

Environmental Monitoring Equipment



## WET and DRY RAIN WATER SAMPLER

The Grisan RWS – 200 Designed primarily to collect rain water samples for analysis , the sampler is constructed from chemically clean materials, designed for accurately separating and collecting both total precipitation and total particulate deposition for later laboratory analysis of PH,

The Grisan RWS-200 Wet and Dry Rainwater Sampler is particularly suited for Acid rain experiments, to enable investigations of rainwater composition and acidity. The sampler is controlled by electronic controller, which was designed specifically to control the rainwater sampler.

The collectors have a common gabled-roof cover. Designed to collect precipitation in two containers, one container is open only during precipitation and the other container remains open between precipitation events. This allows dry deposited material to be collected also.

A specially designed sensor detects precipitation and activates the motor, which in turn transfers the cover from the wet container to the dry container. When the precipitation event is over the cycle is reversed. The most outstanding feature of this unit is the simplicity of design, reliability of the operating components, and the quality of the materials

### Specifications

- A recording elapsed time indicated is included as standard equipment.
- A cycle counter designed to record the number of open/close cycles during any time period.
- A rugged sensor detects precipitation episodes and activates the cover drive to seal the dry deposition collector and expose the wet precipitation collector.
- The collectors segregate dry and wet sampler
- The drive system consists of a motorized ball screw actuator and two limit switch
- The control consists of high input impedance trigger and relay driver.
- The Rugged sensor with automatic heater

## TECHNICAL SPECIFICATIONS

### 1. Rain Water Sampler

- a. Power Supply : Input 220V AC / 50 Hz and Output 12V DC
- b. Material Housing : Heavy Aluminium
- c. Sensor : Rugged Sensor
- d. System Control : High Input Impedance Schmidt Trigger and Relay Drive
- e. System Drive : 12 V DC Motor Drive Linear Actuator Load 250 Pounds
- f. Rain Collector : The Collector System Segregates Dry And Wet Sampler
- g. Electronics Module : Time Indicator And Event Counter
- h. Operating Range : -35°C - 45°C
- i. Collector Size : 3 – 5 Gallon Buckets Low Resistant Plastics
- j. Recording System : Record The Number Of Open / Close Cycle During Any Time period, Thereby Recording The Number Of Precipitation Event
- k. Dimensions : 21 X 40 X 50 Inches ( L X W X H )
- l. Weigh : Net – 127 Pounds (58 Kg) ; Gross – 160 Pounds (73 Kg)

### 2. Rain Collector

- a. Capacity : 3 – 5 Gallon Buckets
- b. Material : Low Resistant Plastics

### 3. Installation

- a. Power Source : 220V AC 50 Hz
- b. Foundation : Sand And Cement Mixture