

Acid Precipitation Sampler

TE-78-100 APS

Designed as an Atmospheric Precipitation Sampler (A.P.S.) for accurately separating and collecting both total precipitation and total particulate deposition for later laboratory analysis of pH, conductivity, and specification.

The Model A.P.S. is designed for severe environments with a main frame constructed of heavy gauge aluminum and powder coated, and holds two symmetrically placed collections. The collectors have a common garbled-roof cover with international sealing surface.

The TE-78-100 APS is 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.
- An on/off indicator light is provided for visual inspection.
- 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 control consists of high input impedance schmidt trigger and a relay driver.
- The drive system consists of a motorized ball screw actuator, a four-bar linkage and two limit switches.
- The collectors segregate dry and wet samples.

RUBBER BOOT AND BOOT
HOLD DOWN FRAME

ROOF
G78-100-6

ACTUATOR ARM

IDLER ARM

BUCKET

SENSOR BOX

BODY

SENSOR POST.
(ASSEMBLY)

ACTUATOR
ANGLE

ALUMINUM PANEL

LINEAR ACTUATOR SPACER

CONTROL
BOX

LEG

TE 78 100 APS



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