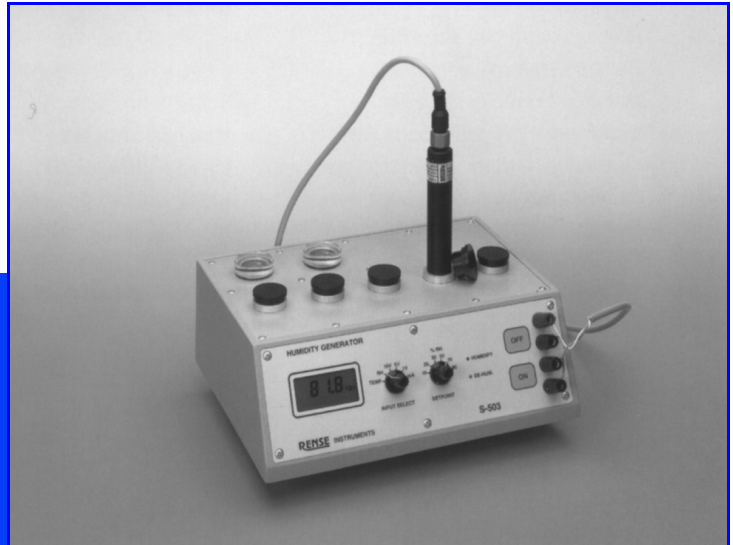


Humidity Generator S-503, S-503-DIG



Series S-503

- **Generates and holds Levels of 10, 20, 30, 50, 70 & 80 %RH**
- **Fast Response: 0.5 %RH Stability achieved in 10 minutes**
- **Built-in Power Supply for Transmitters**
- **Sample ports for up to five Ø 18.5 mm (0.728") probes**



The S-503 Humidity Generator enables users of humidity sensors, transmitters and read-out devices to quickly and accurately generate reference humidity conditions.

There are two types, one with 5 fixed set points 20-30-50-70-80 %RH, and one with a digital set point from 10 till 90 %RH in steps of 0.1%RH.

These lightweight and self-contained units utilize a thin film capacitive sensor and closed loop controllers

to modulate the flow of air through a saturation- and desiccant chamber. An axial fan continuously circulates air through the test chamber for maximum humidity and temperature uniformity. This results in a system that stabilizes within 0.5 %RH of the set point in about 10 minutes.

S-503's were designed with calibration technicians in mind. The calibrator is equipped with the convenience of a built in 15 VDC power supply and provides

direct readout for 0-1 V, 0-5 V, 0-10 V and 4-20 mA transmitters as well as %RH and temperature.

The unit has access ports for five 18.5 mm (0.728") OD Probes. To accommodate 8 mm and 12 mm probes separate adapters can be ordered. The S-503 is supplied with a factory certificate traceable to "NAMAS" standards. For higher precision an independent reference standard such as a chilled mirror hygrometer may be utilized.



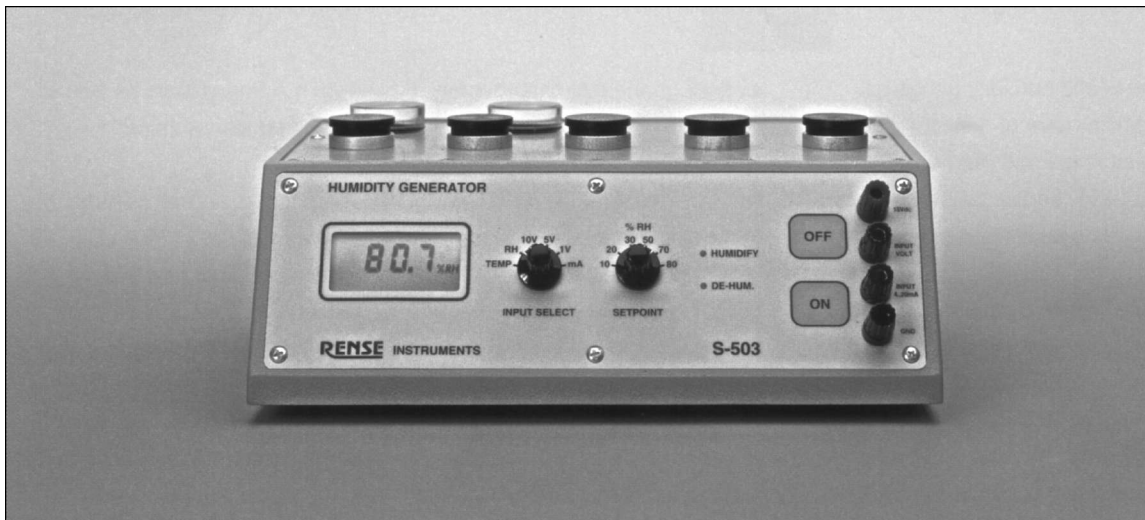
Test up to 5 different humidity probes simultaneously

Ordering information	
Description	Model
Humidity Generator, incl. Power Supply adapter, desiccant and certificate	S-503
Digital Humidity Generator, incl. Power Supply-adapter, desiccant and certificate	S-503-DIG
S-503 cal. kit, DM-509-T-03 and Carrying case, etc. 5 pcs blind stop, 5 pcs adapter 12 mm and 2 pcs adapter 8 mm	S-503-set
S-503-DIG cal. kit, DM-509-T-03 and Carrying case, etc. 5 pcs blind stop, 5 pcs adapter 12 mm and 2 pcs adapter 8 mm	S-503-DIG-set
Accessories	Part number
0.25 kg Desiccant	A-000170
Adapter for 8 mm (.315") probes	A-000180
Adapter for 12 mm (.472") probes	A-000190
Blind Stop	A-000200

Specifications S-503

Power	12 VDC (120 or 230 VAC adapter supplied)
Humidity Range	10-80 %RH
Relative Humidity set points S-503	10, 20, 30, 50, 70 & 80 %RH
Relative Humidity set points S-503-DIG	10...90 %RH in steps of 0.1 %RH
Relative Humidity Accuracy	± 2 %RH
Relative Humidity Stability	Better than 0.5 %RH
Stabilization Time to Set point	about 10 Minutes
Operating Temperature (ambient)	15-35 °C (60-100 °F)
Temperature accuracy read-out	± 0.3 °C (± 0.5 °F)
Transmitter Power Supply	15 VDC , ± 10 % at 30 mA Max.
Display	3 ½ digit LCD, 0.5" High
Voltage Read-out	0-1, 0-5 & 0-10 VDC = 0...100.0 %RH
Current Readout	4-20 mA DC = 0...100.0 %RH
Desiccant Chamber	40g (1.4 Oz) Capacity
Saturation Chamber	25 ml capacity
Dimensions	240 x 185 x 80 mm (9.45 x 7.28 x 3.15 Inches)
Probe Entry	5 x ø18.5 mm
Weight	1,5 Kg (3,3 lbs)

All specifications are subject to change without prior notice.



Warranty

All products manufactured by RENSE Instruments are warranted to be defect free in material and workmanship for a period of one year after delivery.

RENSE

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