

S503 Humidity Calibrator

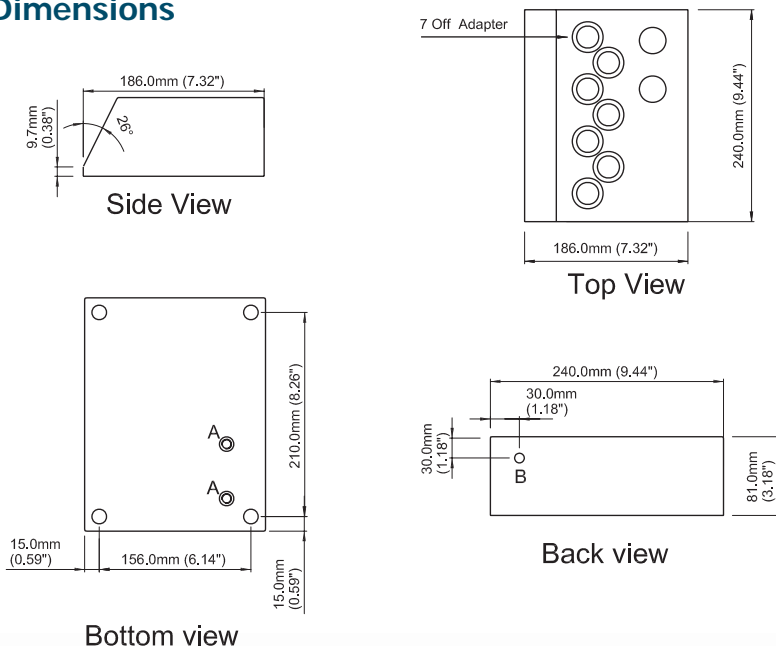


The S503 Humidity Calibrator enables users of humidity sensors, transmitters and portable devices to quickly and accurately generate a stable humidity to validate or calibrate sensors.

Highlights

- Generates stable humidity levels between 5–95% RH
- Highly portable
- Stabilizes at RH setpoint in minutes
- Independent traceable reference hygrometer – optional
- Multiple sensors can be calibrated at the same time
- Port sizes available to fit almost any RH sensor

Dimensions



Notes:
 Hole A = Filler Caps
 Hole B = Power Hole for Adapter.

Technical Specifications

Humidity	
Generation range	10–90% RH in steps of 0.1% RH
Accuracy	±2% RH or better (5–95% RH)
Stability	Better than ±0.5%
Stabilization time to set point	<10 minutes
Temperature	
Temperature accuracy	±0.3°C / ±0.54°F
Operating temperature (ambient)	15 to 35°C / 59° to 95°F
UUT Monitoring	
Voltage read out	0–1, 0–5, & 0–10 VDC
Current read out	4–20 mA
Voltage supply	15 VDC, ±10% at 30 mA max
General	
Probe ports	7 ports to fit sensor body diameters up to 1" / 25mm accommodated by port adapters
Desiccant chamber	1oz / 25g capacity
Saturation chamber	25ml capacity, distilled water
Display	3½ digit LCD, 13mm / 0.5" characters
Supply	12 VDC (100 - 240 VAC adapter included)
Weight	4.1lb / 1.85kg

Accessories and spare parts

Molded polymer housing port adapter for 8.0mm / 0.31" probes (fits std ø18.5mm / ø 0.73" ports)	A000180
Molded polymer housing port adapter for 12.0mm / 0.47" probes (fits std ø18.5mm / ø 0.73" ports)	A000190
Aluminum adapter (M30x1) and plug blank for customer modification (special port adapters are available on request)	A000280
Special modified port adapters ø client specific	A000280X
ø12.0mm / ø 0.47" port Aluminum (M30x1) with plug	A000281
ø13.5mm / ø 0.53" port Aluminum (M30x1) with plug	A000282
ø14.0mm / ø 0.55" port Aluminum (M30x1) with plug	A000283
ø15.0 mm / ø 0.59" port Aluminum (M30x1) with plug	A000284
ø18.5 mm / ø 0.73" port (standard for S-503) Aluminum (M30x1) with plug	A000285
ø19.0mm / ø 0.75" port Aluminum (M30x1) with plug	A000286
ø24.0mm / ø 0.94" port Aluminum (M30x1) with plug	A000287
ø25.0mm / ø 0.98" port Aluminum (M30x1) with plug	A000288
Tool for changing M30 Aluminum adapters	A000265
Carrying case	A000230
Optidew Vision Chilled Mirror reference hygrometer with Stainless steel port adapter (M30x1)	OPT-V-01 A000272
Molded polymer housing port adapter ø18.5mm – ø3.0mm / ø 0.73 – ø0.19" prt probe for Optidew Vision	A000273
0.25kg / 0.55lb desiccant (orange)	A000171
Port plug 18.5mm / ø 0.73"	A000200
Water bottle	A000242
Control sensor	HX-757

Order codes

Digital Humidity Generator, including desiccant, 7 port adapters, power adapter, calibration certificate and adaptor tool	S503-DIG
S503-DIG with extended chamber (0.54 liter extra)	S503-DIG-LC
S503 Calibration Kit, including MDM25-SPR reference hygrometer with calibration certificate, 5 pcs ø12.0mm / ø 0.47" adapter, 2 pcs ø8.0mm / ø 0.31" adapter and carrying case, dessicant, distilled water and adaptor tool	S503-DIG-SET
S503 Calibration Kit, including carrying case, Optidew adapters (A-000272 & A000273) and 5 port adapters to be specified.	S503-DIG-OPT
Note: S-503 is supplied with seven ø18.5mm / ø0.73" ports unless specified otherwise by customer	



S503-DIG-SET calibration kit



S503 with extended chamber

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: S503_1202US_P



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