



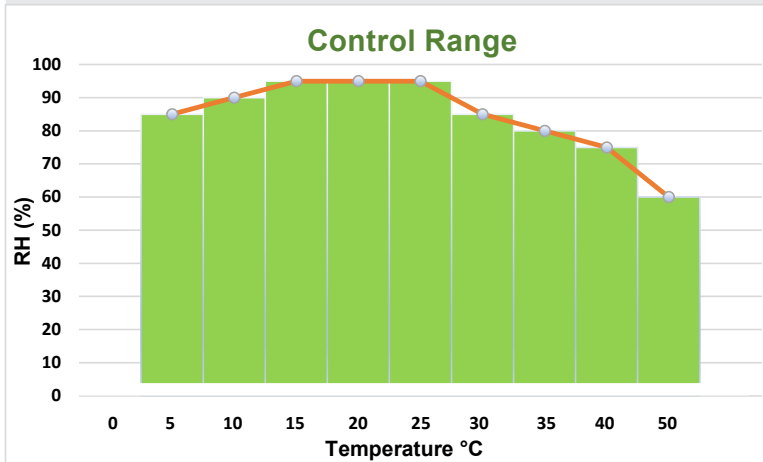
GEO **Calibration**

Model 2000 SP-SH

PRODUCT OVERVIEW

GENERAL SPECIFICATIONS

| | | | | |
|---|--------------------|---|--|--------------------------|
| CALIBRATION TO (17025 TRACEABLE TO NIST) | TRANSFER STANDARD | No Charge | | |
| | CERTIFICATE | 17025 Validation (Additional Fees Apply) | | |
| OPERATING AMBIENT CONDI- TIONS | TEMPERATURE | 18 °C to 28 °C | | |
| | HUMIDITY | Up to 80 % RH | | |
| STORAGE CONDITIONS | TEMPERATURE | -20 °C to 50 °C | | |
| | HUMIDITY | 0 % to 95 % RH (non-condensing) | | |
| ALTITUDE | 2000 m | | | |
| CALIBRATION SYSTEM ACCURACY | TEMPERATURE | ± 0.10 °C Or Better | Typically ± 0.05 °C | *Based on Probe Accuracy |
| | HUMIDITY | ± 1.00 % RH Or Better | Specially tuned systems can be as good as ± 0.60 % | *Based on Probe Accuracy |
| | CONTROLLER TYPE | PID Controller | | |
| UNIFORMITY | TEMPERATURE | 0.10 °C Or Better | Typically ± 0.05 °C | |
| | HUMIDITY | 0.30 % RH @ 18 °C to 28 °C Or Better Typically ± 0.25 % | | |
| STABILITY | TEMPERATURE | 0.05 °C | | |
| | HUMIDITY | 0.15 % RH @ 18 °C to 28 °C | | |
| WARM-UP PERIOD | AMBIENT CONDITIONS | 30 Minutes Maximum | | |
| | COLD | 30 Minutes | | |
| RESOLUTION | DISPLAY | Temperature | 0.01 °C | |
| | | Humidity | 0.01 % RH | |
| | | Dew Point | 0.01 °C (Calculated) | |
| | USB | Temperature | 0.01 °C | |
| | | Humidity | 0.01 % RH | |



| RAMP / SOAK RATE OF CHANGE | | | |
|--|----------------|------------------------------|----------------|
| *Depends on ambient and desiccant conditions | | | |
| TEMPERATURE | High → Low | 1.50 °C / minute *Typical | |
| | Low → High | 5.00 °C / minute *Typical | |
| HUMIDITY | High → Low | 5.00 % RH / minute *Typical | |
| | Low → High | 10.00 % RH / minute *Typical | |
| CONTROL RANGE | | | |
| TEMPERATURE | 5 °C to 55 °C | | |
| HUMIDITY@ 18°C | 5 % to 95 % RH | HUMIDITY@ 35°C | 5 % to 80 % RH |
| HUMIDITY@ 23°C | 5 % to 95 % RH | HUMIDITY@ 40°C | 5 % to 75 % RH |
| HUMIDITY@ 30°C | 5 % to 85 % RH | HUMIDITY@ 50°C | 5 % to 60 % RH |

CONSUMABLES

| | | |
|---------------|-----------------------|---|
| WATER | RESERVOIR | 200 ml |
| | SPILL RESISTANT | Yes |
| | REQUIRED FLUID | Distilled Water Only |
| | EST REFILL PERIOD | 15 Days to 1 Month (Typical) *Depends on Usage |
| | FILL INDICATOR | Floating Ball |
| DESICCANT | TYPE | Molecular Sieve |
| | REPLACEMENT | When Indicating Desiccant is 3/4 Used |
| | REPLACEMENT FREQUENCY | Depends Entirely on User Workload |
| | LOCATION | Left Side Mounted |
| | FASTENER | Desiccant Mounting Bracket Provided |
| RECALIBRATION | FREQUENCY | Depends on User Uncertainty Requirements Once Per Year Recommended |

**Information subject to change, please visit our website for updates at www.geocalibration.com.

MECHANICAL

| | Measurement Type | Width(with bracket) | Width(w/o bracket) | Depth | Height |
|--------------------------------|------------------|--|-----------------------|----------------------|----------|
| GENERATOR DIMENSIONS | Metric | 48.26 cm | 40.26 cm | 38.50 cm | 23.50 cm |
| | English | 19.00 in | 15.85 in | 15.16 in | 9.26 in |
| | Measurement Type | Diameter | Depth | | |
| CHAMBER DIMENSIONS | Metric | 14.50 cm | 20.00 cm | | |
| | English | 5.71 in | 7.87 in | | |
| | Measurement Type | Diameter | Depth | | |
| WORKING DIMENSIONS AND VOLUME | Metric | 12.50 cm | 10.90 cm | | |
| | English | 4.92 in | 4.29 in | | |
| | Volume | 1.5 Liter Effective Working Volume | | | |
| WEIGHT | Unit Only | Metric | 10.07 kg | | |
| | | English | 22.20 lb | | |
| STANDARD PORT QUANTITY | Depends on doors | Availability: 6 Ports, 5 Ports, 4 Ports, 2 Ports | | | |
| CHILLED MIRROR PORTS | In and Out | | | | |
| | | Probe Range | Actual Unit Range | | |
| PROBE ANALOG OUTPUTS AVAILABLE | 0 - 1 Volt | Temperature | - 40.00 to + 60.00 °C | + 5.00 to + 60.00 °C | |
| | | Humidity | 0 to + 100.00 % | + 5.00 to + 95.00 % | |

ELECTRICAL

OUTPUT POWER SUPPLY 12V DC @ 10-12A / Car Battery 12-13.4 VDC @10-12A Maximum Power 240 Watts

Ordering Information

Standard Supply Package

*Customization is Available
* Complete Accessory List is Available at www.geocalibration.com

| | | |
|--|-------------------------------------|-----------------------|
| Square 6-Port Door | Desiccant Canister | Fill Syringe |
| 7 Grommets (1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8") | DC Cable Power Supply(Optional) | Calibration Documents |

Accessories


| Doors | Shape | Port Quantity | | Connector Type | | Part Number | | |
|-------------------|---|----------------------------------|-----------|--|-----------|---------------------------------|----------------|----------------|
| | Square / Round | 6-Port Door | | M36 Connectors | | 01-001-00-0017 / 01-001-00-0018 | | |
| | Square / Round | 4-Port Door | | M36 Connectors | | 01-001-00-0003 / 01-001-00-0004 | | |
| | Square / Round | 4-Port Door | | SLIMLINE | | 01-001-00-0024 / 01-001-00-0025 | | |
| | Square | 4-Port Chilled MirrorDoor | | M36 Connectors | | 01-001-00-0010 | | |
| | Square | 2-Port Door | | M36 Connectors | | 01-001-00-0028 | | |
| Grommets | Port Type | Size (in) | Size (mm) | Part Number | Port Type | Size (in) | Size (mm) | Part Number |
| | M36 | 0.000" | 0.000 | 01-004-09-0001 | SLIMLINE | 0.125" | 3.175 | 01-004-09-0020 |
| | M36 | 0.125" | 3.175 | 01-004-09-0002 | SLIMLINE | 0.250" | 6.350 | 01-004-09-0021 |
| | M36 | 0.250" | 6.350 | 01-004-09-0003 | SLIMLINE | 0.375" | 9.525 | 01-004-09-0022 |
| | M36 | 0.375" | 9.525 | 01-004-09-0004 | SLIMLINE | 0.500" | 12.700 | 01-004-09-0023 |
| | M36 | 0.500" | 12.700 | 01-004-09-0005 | SLIMLINE | 0.625" | 15.875 | 01-004-09-0024 |
| | M36 | 0.625" | 15.875 | 01-004-09-0006 | SLIMLINE | 0.750" | 19.050 | 01-004-09-0025 |
| | M36 | 0.750" | 19.050 | 01-004-09-0007 | SLIMLINE | 0.825" | 20.950 | 01-004-09-0026 |
| | M36 | 0.875" | 22.225 | 01-004-09-0008 | SLIMLINE | 1.000" | 25.400 | 01-004-09-0027 |
| | M36 | 1.000" | 25.400 | 01-004-09-0009 | | | | |
| Expansion Chamber | Description | Width | | Depth | Height | Part Number | | |
| | Standard Expansion Chamber | | | 220mm | 286mm | 345mm | 01-054-00-0000 | |
| Additional | Description | Part Number | | Note: | | | | |
| | Desiccant Canister w/ Material Chamber Insert | 01-200-11-0001 01-200-08-0025 | | (Various Desiccant Canisters and Expansion Chamber Available For This Unit.) | | | | |

**Information subject to change, please visit our website for updates at www.geocalibration.com.



GEO
Calibration
Humidity Control Company



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