

S904 Climate Chamber

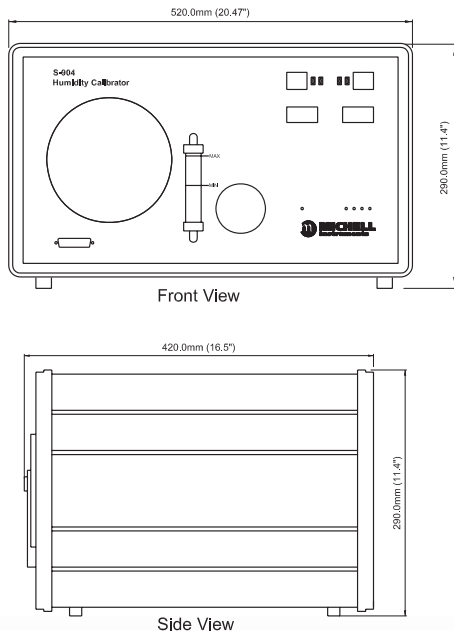


The S904 Climate Chamber generates a stable and accurate RH at various temperatures, permitting calibration and verification of relative humidity sensors and transmitters. With a chamber temperature range of 10 to 50°C / 50 to 122°F, a uniformity of ±0.1°C / 0.02°F and the ability to generate 10–90% RH, accurate and repeatable calibrations are made easy.

Highlights

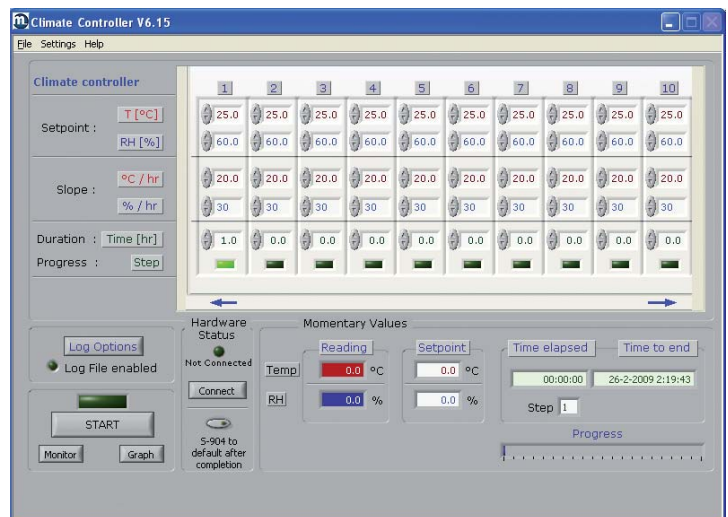
- Excellent stability within chamber: ±0.2% RH, Temp. ±0.1°C / 0.18°F
- Optional in-built data-logging for reference probe and probes under calibration
- Probes up to ø 1" / ø 25 mm can be accommodated

Dimensions



Technical Specifications

| Humidity | |
|---|--|
| Generator range | 10–90% RH |
| Accuracy | ±2% RH |
| Stability | ±0.2% RH (20–80% RH) |
| Temperature | |
| Generator range | 10 to 50°C / 50 to 122°F (lowest T set point = 10°C / 18°F below ambient) |
| Accuracy | ±0.1°C / ±0.2°F |
| Stability | ±0.1°C / ±0.2°F |
| Chamber | |
| Ramp rate from 20 to 40°C / 68 to 104°F | 1.5°C/minute / 2.7°F/minute |
| 40 to 20°C / 104 to 68°F | 0.7°C minute / 1.2°F/minute |
| Control element | Removable relative humidity sensor |
| General | |
| Probe ports | up to 5 – sensor body diameters up to 25mm / 98" accommodated by port adapters |
| Chamber volume | 122 in ³ / 2000 cm ³ |
| Chamber dimensions | 4.13 x 4.13 x 6.3" / 105 x 105 x 160mm (w x h x d) |
| S-904 dimensions | 20.5 x 11.4 x 16.5" / 520 x 290 x 420mm (w x h x d) |
| Set point resolution | 0.1 for humidity and temperature |
| Displays | 3 digit LED, 0.39" / 10mm characters |
| Supply | 85–264 VAC, 47–63 Hz, 150 VA |
| Weight | 44lb / 20kg |



LabVIEW logging software

Accessories and spare parts

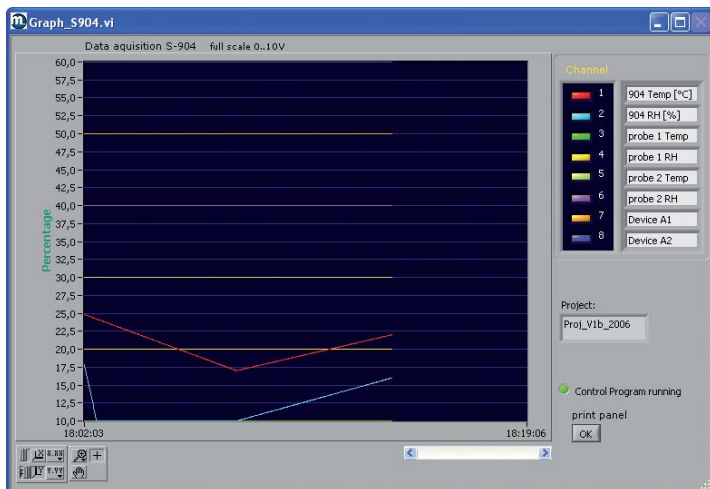
| | |
|---|----------|
| Door kit with 1 x \varnothing 19.0mm / \varnothing 0.79" port | A000260 |
| Door kit with 5 ports. 5 adapters to be specified | A000263 |
| Door kit with 5 ports and 25 port adaptors: 5x \varnothing 19.0mm / \varnothing 0.75"; 4x \varnothing 12.0mm / \varnothing 0.47"; 4 x 13.5mm /0.53", 4 x 15.0mm/0.59", 4 x 18.5mm/0.73", 4 x 24.0mm/ 0.94" adaptors and plugs. Adapter tool included. | A000264 |
| Door with clear window - no ports | A000266 |
| Door without ports | A000268 |
| Door kit for use with MI Optidew. Optidew dew-point sensor port adapter, PRT port adapter, 4 standard port adapters (\varnothing 19.0mm / \varnothing 0.75"). Adapter tool included. | A000269 |
| Molded polymer housing port adapter & plug blank (for customer modification) | A000290 |
| Special modified port adapters \varnothing client specific | A000290X |
| \varnothing 12.0mm / \varnothing 0.47" port | A000291 |
| Molded polymer port (M30x1) & plug | |
| \varnothing 13.5mm / \varnothing 0.53" port | A000292 |
| Molded polymer port (M30x1) & plug | |
| \varnothing 14.0mm / \varnothing 0.55" port | A000293 |
| Molded polymer port (M30x1) & plug | |
| \varnothing 15.0mm / \varnothing 0.59" port | A000294 |
| Molded polymer port (M30x1) & plug | |
| \varnothing 18.5mm / \varnothing 0.73" port | A000295 |
| Molded polymer port (M30x1) & plug | |
| \varnothing 19.0mm / \varnothing 0.75" port | A000296 |
| Molded polymer port (M30x1) & plug | |
| \varnothing 24.0mm / \varnothing 0.94" port | A000297 |
| Molded polymer port (M30x1) & plug | |
| \varnothing 25.0mm / \varnothing 0.98" port | A000298 |
| Molded polymer port (M30x1) & plug | |
| Tool for M30X1 Aluminum Ports | A000265 |
| Control sensor | HT961 |

Order codes

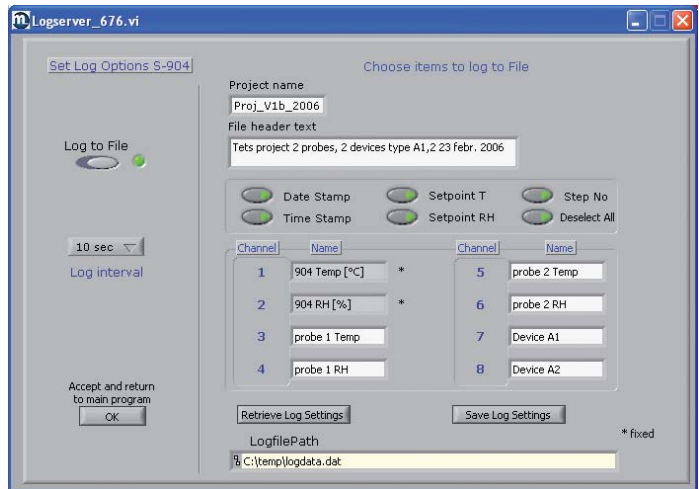
| | |
|--|--------|
| Calibrator with humidity and temperature controlled chamber. | S904 |
| S904 calibrator with RS232 / USB interface, data-logging software for PC (6 channel data-logger) | S904-D |

1. S904 set point temperature (0 to 10 V = 0 to 100°C / 32 to 212°F)
2. S904 set point RH (0 to 10 V = 0 to 100% RH)
3. Free to use (0 - 10 V)
4. Free to use (0 - 10 V)
5. Free to use (0 - 10 V)
6. Free to use (0 - 10 V)
7. Free to use (0 - 10 V)
8. Free to use (0 - 10 V)

The acquisition system only measures 0 to 10 V on every channel so the 4 to 20 mA signals from the Optidew are converted to a 0 to 10 V signal. Channels 1 and 2 are not available for logging signals. A 500 Ω resistor must be used.



LabVIEW logging software



LabVIEW logging software

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: S904_1001US_P



Process Measurement & Controls, Inc. Email: sales@pmc1.com
 Michell Instruments RH Web: www.michell.com/us/rh
 11 Old Sugar Hollow Road Tel: 203-792-8686
 Danbury, CT 06810 USA Fax: 203-743-2051

Represented by: