HYGROGEN2-S-XL



REFERENCE GENERATORS FOR CALIBRATION OF HUMIDITY AND TEMPERATURE INSTRUMENTS

BASED ON AIRCHIP DIGITAL TECHNOLOGY

TRANSPORTABLE HUMIDITY AND TEMPERATURE CALIBRATION LABORATORY

- Generates stable humidity and temperature conditions (± 0.1 %RH, ± 0.01 °C)
- Calibration solution for the laboratory and on-site
- Humidity equilibrium typically in only 5 minutes for HG2-S, 15 minutes for HG2-XL
- Calibrate multiple probes simultaneously
- «AutoCal» automated calibration (optional)
- «Remote API» logging and control with third party software (optional)*
- Integrated FDA 21 CFR part 11 compliant Rotronic HW4 software







HYGROGEN2: THE BENCHMARK FOR HUMIDITY CALIBRATION

Since its launch the Rotronic HygroGen has defined the standard for portable humidity and temperature calibration systems. Hundreds of users worldwide have identified that this tool for the rapid generation of stable temperature and humidity conditions can save significant amounts of time in performing calibrations of all types of humidity instruments from all manufacturers. The HygroGen2 satisfies the stringent demands of quality and compliance regulations with its ability to calibrate instruments over their full working range, and is embraced throughout the pharmaceutical industry as the leading instrument in its class and is favored in ISO17025 humidity calibration laboratories across the world. Being portable and robust, it can be set up at the installation location allowing for complete system qualification.

The rock solid stability, minimal thermal gradients, and rapid time for set-point changes of HygroGen2-S are now replicated in a new family member: HygroGen2-XL, which boasts a chamber with 10 times the capacity.

HYGROGEN2-S

- Chamber volume: 2 litres
- Working volume 1.5 litres
- Humidity changes (5...95 %RH, 0.1 %RH stability): <5 minutes
- Temperature changes (23...50 °C, 0.01 °C stability): < 5 minutes



HYGROGEN2-XL

- Chamber volume: 20 litres
- Working volume 17 litres
- Humidity changes (5...95 %RH, 0.1 %RH stability): <15 minutes
- Temperature changes (23...50 °C, 0.01 °C stability): < 15 minutes



Standard Features

- Both HygroGen2 models have a standard temperature control range of 0...60 °C and humidity range of 5...95 %RH. Optional range extensions are available.
- Humidity generation is by a piezoelectric element with digital PID control allowing optimized response across the temperature range. At equilibrium RH control is better than ±0.1 %RH.
- Touch screen interface
- Integrated USB ports for the connection of peripheral devices such as a mouse and keyboard. Rotronic HygroClip2 probes with USB cables can also be connected.
- User programmable set-points allow automatic changes of temperature and humidity set-points with pre-defined dwell times. Once set, this ramp/soak function enables instruments to be calibrated at multiple points without further user intervention



- External heated sample points for connection of a chilled mirror reference hygrometer allow the user to precisely verify the calibration of the HygroClip control probe at any time, or to reduce overall calibration uncertainty. Sample ports can also be used to provide stable humidity conditions for external applications.
- Remote Support By connecting the HygroGen2 to an internet connected network, remote support and training is available (previously only available with Remote Enhanced Feature).

• Integrated FDA 21 CFR part 11 compliant Rotronic HW4-P data acquisition and calibration software provides automatic collection of measured values and digital adjustment of compatible probes. Now includes logging of control HygroClip2.



- An integrated UV sterilisation system within the water reservoir eliminates any issues caused by waterborne contaminants.
- Dry air is supplied from an internal desiccant cell that has integrated condition monitoring so the user can identify when the desiccant needs to be regenerated or replaced.
- Standard configuration doors (HG2-S: 6 x 30 mm, HG2-XL: 8 x 30 mm ports) as well as custom designs are available (e.g. HG2-XL: 19 x 30 mm). A series of probe sleeves to fit every manufacturers' probes are available. Perspex clear door available for HG2-S.
- With the HG2-XL, probes and loggers can be mounted on modular shelves as well as through the door.



UPGRADE YOUR HYGROGEN2 WITH ENHANCED FEATURES

Optional Enhanced Features

A number of optional Enhanced Features are available for all Hygro-Gen2 models. These are applied using a machine specific software unlock code – available from your Rotronic dealer - and can be purchased and applied on units at any time.

- Remote API
- AutoCal automated calibration, adjustment and certificate generation for HC2-S probes
- External MBW/RHS reference integration
- Temperature and Humidity Range Extensions (-5...60 °C, 2...99 %RH)
- Remote Screen Sharing

"Remote API" *

Remote API is a new feature to allow granular command line control and logging of the HygroGen2 via a series of commands over TCP/IP. This allows users to integrate the HygroGen2 into their own or third party systems, e.g. Beamix and/or write software scripts to automate the calibration process.

HG2-1379	Commands	
	Temp?	HC2Serial?
	TempRef?	DesiccantHC2Serial?
	TempControl?	Version?
	TempControl=x [1,0]	ControllerSerial?
	TempSP?	Name?
	TempSP=x	Reference?
	TempStable?	Reference=x
	TempPower?	ExtRefCorrections?
	RH?	ExtRefSerial?
	RHRef?	ExtRefTemp?
TempControl?	RHControl?	ExtRefTempCorr?
1 TempSP?	RHControl=x [1,0]	ExtRefDP?
25.00	RHSP?	ExtRefDPCorr?
HumidtySP?	RHSP=x	ExtRefFP?
35.00	RHStable?	ExtRefFPCorr?
Temp?	RHPower?	ExtRefRH?
25.007 Humidity?	Time?	ExtRefControl?
34.990	Desiccant1DP?	ExtRefStable?
HumiditySP=80	Desiccant2DP?	Warning?
	WaterLevel?	ProgramRun?

"AutoCal"

With AutoCal, users are able to pre-program a series of desired setpoints, and leave the instrument to automatically calibrate and adjust the whole range of Rotronic HygroClip2 RH probes, generating a customisable PDF certificate detailing all the calibration data.

_	uto C	a							
100 -									_
Amplitude & S -									
20-									
Step	1 23	2 23	3	23	0	0	0		
unidity	35	80	35 🕥	35 🕥	35 🔘	35 🕥	35		13. LA.
uration	00:15	00:15	00:15				01:00		
	Insert	Insert	Insert	Insert	Insert	Insert	Insert		HW4
	Delete	Delete	Delete	Delete	Delete	Delete	Delete		
	<						8	ACal	
	Program	n: 1 A	Cal Profile	1				-	>>
		rature Tol						<<	

Automated calibration of multiple HC2 probes connected via AC3001 USB adaptor:

• 20 user programs (up to

- 200 set-points per program)
- Option to automatically adjust 1 temperature and 10 humidity points
- Select probes individually for adjustment
- Creates a PDF calibration certificate for each probe under test



Order codes				
HG2-AutoCal-Code	Feature (licence code only): Auto calibra	Feature (licence code only): Auto calibration function		
HG2-ExtRef-Code	Feature (formerly Autocal+, requires Au	Feature (formerly Autocal+, requires AutoCal or RemoteAPI, licence code only):		
	MBW/RHS External Reference Integration - enables MBW chilled mirror as external reference			
HG2-TempExt-Code	Feature (licence code only): Temperature Extension -560 °C			
HG2-HumiExt-Code	Feature (licence code only): Humidity E	Feature (licence code only): Humidity Extension 299 %RH		
HG2-RemoteSS-Code	Feature (formerly Remote, licence code only): Remote Screen Share			
HG2-RemoteAPI-Code	Feature (licence code only): remote control application programming interface *			
HG2-EF-Bundle1	Feature bundle 1 (licence code only):	[TempExt / HumiExt / AutoCal]		
HG2-EF-Bundle2	Feature bundle 2 (licence code only):	[AutoCal / ExtRef / RemoteSS]		
HG2-EF-Bundle3	Feature bundle 3 (licence code only):	[TempExt / HumiExt / AutoCal / ExtRef / RemoteSS]		
HG2-EF-Bundle4	Feature bundle 4 (licence code only):	[RemoteAPI / ExtRef / RemoteSS]		
HG2-EF-Bundle5	Feature bundle 5 (licence code only):	[TempExt / HumiExt / RemoteAPI / ExtRef / RemoteSS]		
HG2-EF-Bundle6	Feature bundle 6 (licence code only):	[TempExt / HumiExt / AutoCal / RemoteAPI / ExtRef / RemoteSS]		

External MBW/RHS reference integration (formerly "AutoCal+") External MBW/RHS Reference Integration further extends the utility of the generator, with the ability to integrate MBW chilled mirror hygrometers as the AutoCal calibration reference or within the Remote API.

MBW Instruments are widely acknowledged as the definitive humidity calibration reference, and are used as the default transfer standard all the way up to the highest level of measurement – National Metrology Institutes, including NPL, NIST, PTB, NML. With the ability to add an external reference with stated accuracy of 0.1 °C dew point, though in reality considerably better, measurement uncertainty of less than 0.7 %RH at ambient conditions is easily achieved.



(Requires MBW reference integration)

"Range Extensions"

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Range extensions are available as follows:

- Low Temperature Range Extension -5...60 °C (Standard 0...60 °C)
- Humidity Range Extension 2...99 %RH (Standard 5...95 %RH)



Standard operating range Optional upgraded operating range Condensation possible in chamber (dependent on ambient)

"Remote Screen Sharing" (formerly "Remote Control")

Remote Screen Share further enhances the user experience with the ability to connect the HygroGen2 to your network LAN and operate it from remote locations, including – with appropriate WIFI networking - using mobile devices. Using the open source standard VNC protocol, the HygroGen2 can be controlled and monitored from a single PC. The remote control of HygroGen2 is possible on multiple desktop and mobile platforms.



TECHNICAL INFORMATION

HygroGen2 Specification	S		HG2-S	HG2-XL		
Chamber volume			2 litres	20 litres		
Working volume			1.5 litres	17 litres		
Humidity changes (<±0.1	%RH stability)	595 %RH	<5 minutes	<15 minutes		
Temperature changes (<±0		2350 °C	<5 minutes	<15 minutes		
iemperature enanges (i=	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	230 °C	<25 mins	<35 minutes		
Thermal gradients		1550 °C	<±0.05 °C	<pre></pre>		
inemat Statients		560 °C	<pre><±0.1 °C</pre>	(±0.1 °C		
		05 °C	<pre></pre>	< <u>+</u> 0.15 °C		
Probe mounts		0	Up to 6 probes through door ports	Up to 19 probes through		
				door, plus internal shelf racks		
Weight & Dimensions		13 kg, 45 x 41x 21 cm 37 kg, 80 x 62 x 41 cm				
Generation method			er cell and piezoelectric humidifier; Peltier th	nermoelectric element with radial		
		chamber mixing fan				
Control probe specification		±0.8 %RH (1030 °C), ±2 %RH (060 °C) ±0.1K (1030 °C), ±0.3K (060 °C)				
Typical calibration uncert	ainty	±1.5 %RH (k=2) at 23 °C, ±0.1	15 °C (k=2) 1550 °C			
Sensor		HygroClip2, capacitive RH sensor, Pt100 temperature sensor				
Control type			oller, touch screen graphical user interface			
Programmer function			to 200 set-point changes per program			
External sample loop for	MBW reference	Temperature controlled outlet				
USB ports		7 front, 2 rear				
Integrated software		Rotronic HW4 (FDA 21 CFR par	rt 11 compliant)			
Water level		Low and high alarm, bar grap				
Water guality		UV sterilisation, auto time cyc				
Desiccant condition						
		Condition monitored during control operation				
Optional Enhanced Featu	res	Temperature / Humidity Range Extensions, AutoCal, External MBW/RHS reference integration, Remote Screen Sharing, Remote API *				
Power		110240 VAC 50/60 Hz, 3 A				
Enclosure		Powder coated aluminium and	d steel, IP20			
Operating Conditions		10-35 °C, <2000 m altitude or	less			
CE		Safety:	EN 61010-1:2001			
		EMC:	EN 61326-1:2006			
			EN 61000-6-1:2007			
		4				
Order codes						
HG2-S			reference probe, set-point control & progran P. Order chamber door separately	imer function, heated sample		
HG2-XL	HygroGen2-XL wit	h touch screen, calibrated contr	ol/reference probe, set-point control & prog	rammer function, heated sample		
	loop, 2 x desiccar	nt cell, fill syringe, embedded HV	V4-P.			
Chamber doors / probe s						
	leeves / bungs		th 5 bungs, order specific B1 sleeves for sma	aller probe diameters		
HG2-D-11111	leeves / bungs HG2-S door 5 x 15	5 mm ports (for 5 HygroClips) wit				
HG2-D-11111	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30	5 mm ports (for 5 HygroClips) wit 0 mm ports with 6 bungs, order s	th 5 bungs, order specific B1 sleeves for sma			
HG2-D-11111 HG2-D-888888 HG2-HFW	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30 HG2-S door for HF	5 mm ports (for 5 HygroClips) wit 0 mm ports with 6 bungs, order s 73 and HF4 wall mount transmitt	th 5 bungs, order specific B1 sleeves for sma specific B8 sleeves to suit smaller probe dia ers, also HP21 hand held with fixed probe			
HG2-D-11111 HG2-D-888888 HG2-HFW HG2-DP-00000	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30 HG2-S door for HF HG2-S clear acryli	5 mm ports (for 5 HygroClips) wit 0 mm ports with 6 bungs, order s 13 and HF4 wall mount transmitt c door (no ports) for instruments	th 5 bungs, order specific B1 sleeves for sma specific B8 sleeves to suit smaller probe dia ers, also HP21 hand held with fixed probe			
HG2-D-11111 HG2-D-888888 HG2-HFW HG2-DP-00000 HG2-B1	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30 HG2-S door for HF HG2-S clear acryli 15 mm Bung for H	5 mm ports (for 5 HygroClips) wit 9 mm ports with 6 bungs, order s F3 and HF4 wall mount transmitt c door (no ports) for instruments HG2-D-11111	th 5 bungs, order specific B1 sleeves for sma specific B8 sleeves to suit smaller probe dia ers, also HP21 hand held with fixed probe s with displays	meters		
HG2-D-11111 HG2-D-888888 HG2-HFW HG2-DP-00000 HG2-B1 HG2-B1-xx	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30 HG2-S door for HF HG2-S clear acryli 15 mm Bung for H B1 probe sleeves	5 mm ports (for 5 HygroClips) wit 6 mm ports with 6 bungs, order s 73 and HF4 wall mount transmitt c door (no ports) for instruments HG2-D-11111 for HG2-D-11111 (15 mm extern	th 5 bungs, order specific B1 sleeves for sma specific B8 sleeves to suit smaller probe dia ers, also HP21 hand held with fixed probe	meters		
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HG2-D-11111 HG2-D-888888 HG2-HFW HG2-DP-00000 HG2-B1 HG2-B1-xx HG2-B8 HG2-B8-xx HG2-D-xxxxx HG2-D-xxxxx HG2-D-xxxxx HG2-Bxx HG2-Bxx-xx HG2-D-888888-Map Accessories HG2-TB HG2-TC HG2-AC3001-L/050	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30 HG2-S door for HF HG2-S clear acryli 15 mm Bung for H B1 probe sleeves 30 mm Bung for H B8 probe sleeves HG2-S custom doo Custom bung Custom probe add HG2-D888888 do HG2-S transit bag HG2-S heavy duty HygroClip2 calibra	5 mm ports (for 5 HygroClips) wit 2 mm ports with 6 bungs, order s 3 and HF4 wall mount transmitt c door (no ports) for instruments IG2-D-11111 for HG2-D-11111 (15 mm extern IG2-D-888888 for HG2-D-888888 (30 mm extern or for > 30 mm ports, ask your Ro aptor sleeves or with detachable mapping rig , lightweight transit case ation cable, 50 cm, USB	th 5 bungs, order specific B1 sleeves for sma specific B8 sleeves to suit smaller probe dia ers, also HP21 hand held with fixed probe s with displays nal, internal probe diameter see xx diameter rnal, internal probe diameter see xx diameter	neters codes)		
HG2-DP-00000 HG2-B1 HG2-B1-xx HG2-B8	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30 HG2-S door for HF HG2-S clear acryli 15 mm Bung for H B1 probe sleeves 30 mm Bung for H B8 probe sleeves HG2-S custom doo Custom bung Custom probe add HG2-D888888 doo HG2-S transit bag HG2-S heavy duty HygroClip2 calibra	5 mm ports (for 5 HygroClips) wit 2 mm ports with 6 bungs, order s 3 and HF4 wall mount transmitt c door (no ports) for instruments 162-D-11111 167 HG2-D-11111 (15 mm extern 162-D-888888 for HG2-D-888888 (30 mm extern 167 HG2-D-888888 (30 mm exte	th 5 bungs, order specific B1 sleeves for sma specific B8 sleeves to suit smaller probe dia ers, also HP21 hand held with fixed probe s with displays nal, internal probe diameter see xx diameter rnal, internal probe diameter see xx diamete otronic dealer for the available doors	neters codes)		
HG2-D-11111 HG2-D-888888 HG2-HFW HG2-DP-00000 HG2-B1 HG2-B1-xx HG2-B8 HG2-B8-xx HG2-D-xxxxx HG2-D-xxxxx HG2-D-xxxxx HG2-Bxx HG2-Bxx-xx HG2-D-888888-Map Accessories HG2-TB HG2-TC HG2-AC3001-L/050 (5)	leeves / bungs HG2-S door 5 x 15 HG2-S door 6 x 30 HG2-S door for HF HG2-S clear acryli 15 mm Bung for H B1 probe sleeves 30 mm Bung for H B8 probe sleeves HG2-S custom doo Custom bung Custom probe add HG2-D888888 doo HG2-S transit bag HG2-S heavy duty HygroClip2 calibra	5 mm ports (for 5 HygroClips) wit 2 mm ports with 6 bungs, order s 3 and HF4 wall mount transmitt c door (no ports) for instruments 162-D-11111 167 HG2-D-11111 (15 mm extern 162-D-888888 for HG2-D-888888 (30 mm extern 167 HG2-D-888888 (30 mm exte	th 5 bungs, order specific B1 sleeves for sma specific B8 sleeves to suit smaller probe dia ers, also HP21 hand held with fixed probe s with displays nal, internal probe diameter see xx diameter rnal, internal probe diameter see xx diameter btronic dealer for the available doors	neters codes)		

* Feature not available yet. Coming soon



MEASUREMENT SOLUTION:

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