All test equipment used to carry out temperature testing is traceable to UK standards, for current copies of SES equipment certificates please contact us.

SELECT ENGINEERING SERVICES Ltd. (SES) Certificate of Calibration



Certificate Number

SES CC12344520







QA7 Calibration Certificate

SELECT ENGINEERING SERVICES CERTIFICATE OF CALIBRATION

- All works have been carried out as per SES QA7 SOP/BS 17025 and is traceable to Ukas standards using Ukas calibrated and referenced equipment.
- > This certificate has been saved and issued in PDF form created by and documented by SES and must not be changed nor altered in any way, for copies please contact SES direct. Copies are available indefinitely.
- All test equipment has been verified for use and have current certification, a copy of the reference thermometer certificate is attached on the last page, the certificate was issued and was used to verify all equipment used for the test/s.
- > This certificate is intended to show the data taken and the results of the calibration from the equipment at the time of testing, the SES engineer will have altered the machine for any differences whilst on site. Do not make any alterations to the machine as this will result in the calibration being void.

Customer	A Company		Machine Location	Building A	Data Logger Make	Thermosense
Customer number	C1234		Machine Make	Priorclave	Data Logger Model	BTM-4208SD
Contact	A Customer		Machine Model	V56	Data Logger Srno	424685
Certificate no	SES CC12344520		Machine Srno	1234	Data Logger No	2
Calibration Date	00/00/20		Auxiliary Make	N/A	Data Logger Cert No	SES CC424621619
Valid until	until 00/00/20		Auxiliary Model	N/A		_1
Certificate Issue Date 00/00/20		Auxiliary Srno	N/A	Test Engineer	-07	

Prog no.	Cycle description (Set point temperature and time)				Ambient Temperature			1/6	7/12
1	121	°C	15	Minutes	23	°C	Thermocouple sets used	Х	Х

Reading	CH1°C	CH2°C	Display(°C)	Axillary (°C)	Pressure (Units barg)	Minimum	1.28	1.30	Maximum
1	124.4	123.9	122.2	N/A	Timer	Minutes	15	00	Seconds
2	124.4	123.9	122.2	N/A	Process Timer Start	Hour	11	51	Minute
3	124.5	123.9	122.2	N/A	Process Timer End	Hour	12	06	Minute
4	124.4	123.9	122.2	N/A	Notes (any anomalies, failed c	ycles etc.)			
5	124.4	124.0	122.2	N/A					
6	125.0	124.4	122.5	N/A					
7	124.6	124.1	122.5	N/A					
8	124.6	124.1	122.2	N/A					
9	124.6	124.1	122.3	N/A					
10	124.6	124.2	122.4	N/A					

Uncertainty of Measurement

Type K Range 0 degrees C to 1350 degrees C =+/- (0.5 degrees C = 1 least Significant digit)

	Ch.no	Mean Value	Sample Size	Std Uncert	tainty		Confidence	Coverage Factor	Expanded U	Incertainty
1	1	124.55°C	10	+/_	0.18	°C	95%	2.262	+/_	0.42 ℃
	2	124.05°C	10	+/_	0.16	°C	95%	2.262	+/_	0.37 °C

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of *k*=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with BS EN 17025.

Series:	SESCC	QA N	Number		QA7	Issue Date:	26/07	/18
Revision Nur	nber		CC4	Revision	Date	23/06/2019		Page 2 of 5





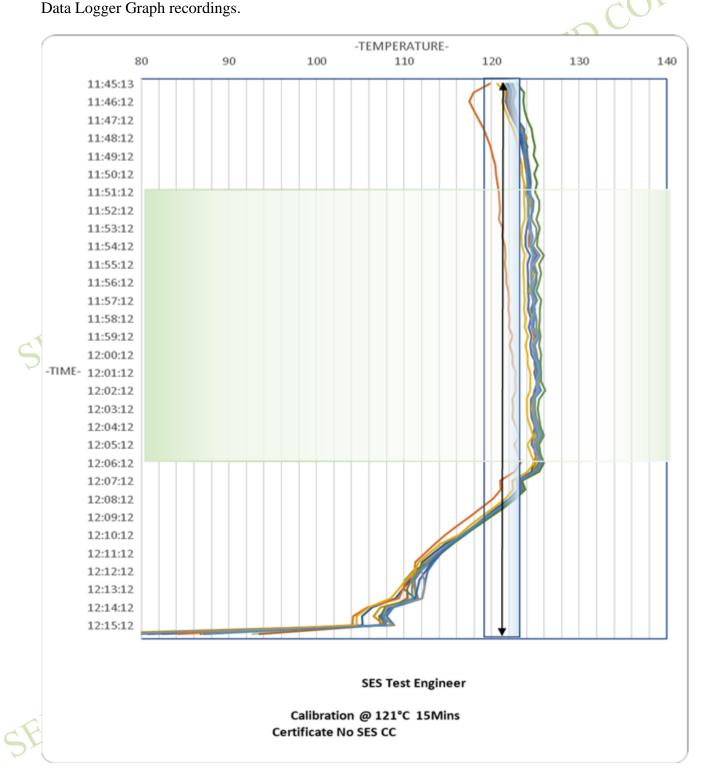


Service: Rachel 07708 717 936 Engineering: Colin 07935 351 626 email boothjerico@ntlworld.com

QA7 Calibration Certificate Continued.

Certificate Number

SES CC12344520



The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of *k*=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with BS EN 17025.

Series:	SESCC	QA N	Number		QA7	Issue Date:	26/07	/18
Revision Nun	iber		CC4	Revision	Date	23/06/2019		Page 3 of 5





Service : Rachel 07708 717 936 Engineering : Colin 07935 351 626 email boothjerico@ntlworld.com

QA7 Calibration Certificate

Continued. Data Logger Data Recordings. Certificate Number SES CC12344520

Time Ch1 Ch2 Ch3 Ch4 Ch5 Ch6 Ch7 CH8 CH9 CH10 CH11 CH12 V CH12
11:50:42 124.2 124.1 124.4 124.5 124.2 124.4 125.2 124.2 120.7 124.1 123.7 124.2 11:51:12 124.4 124.2 124.4 124.2 124.2 125.5 124.1 120.8 123.9 123.7 124.2 11:51:12 124.3 124.2 124.6 124.8 124.8 125.4 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.2 124.3 124.3 124.3 124.3 124.3 124.3 124.3 124.4 125.5 124.4 125.5 124.4 123.8 124.3 124.3 125.1 124.4 124.5 125.5 124.4 121.3 124.3 123.5 124.4 11:53:12 124.4 123.9 124.3 125.1 124.4 124.5 125.2 124.4 121.2 124.6 123.4 124.7 124.5 125.2 124.4 121.5 124.4 123.5 124.5 125.5 124.4 125.2 124.4 121.5 124.4 123.5 124.5 125.5 124.8 125.2 126.5 125.2 121.6 124.7 123.8 124.8 11:55:12 124.6 124.1 124.5 124.9 124.5 125.1 125.7 124.5 121.5 124.5 123.6 124.6 11:56:12 124.7 124.2 124.5 125.2 124.6 125.1 125.7 124.5 121.5 124.5 123.6 124.6 11:56:12 124.7 124.2 124.5 124.8 125.1 125.7 124.5 121.7 124.5 123.6 124.6 11:56:12 124.7 124.2 124.5 124.8 125.1 125.7 124.5 121.7 124.5 123.6 124.6 11:56:12 124.7 124.3 125 124.8 125.1 125.7 124.8 121.7 124.5 123.7 124.6 11:57:12 125.1 124.3 125.1 124.8 125.1 125.7 124.8 121.7 124.6 123.7 124.6 11:57:12 125.1 124.8 124.3 124.8 125.1 124.8 124.1 124.9 124.1 124.9 124.1 124.9 125.5 124.6 121.9 125.1 123.7 124.6 123.9 124.7 123.8 124.7 123.8 124.7 123.8 124.7 124.8 124.1 124.9 125.5 125.1 124.8 125.1 124.6 123.9 124.7 125.5 125.1 124.8 125.1 124.8 125.1 124.8 125.1 124.8
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12:07:42 123.3 123 123.2 123.6 123.3 123.4 123.9 123.4 121.1 123.3 122.5 123.3

 ω expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of ω nfidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with BS EN 17025.

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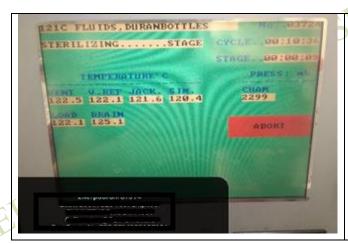
Service : Rachel 07708 717 936 Engineering : Colin 07935 351 626 email boothjerico@ntlworld.com

QA7 Calibration Certificate

Continued.

Certificate Number | SES CC12344520

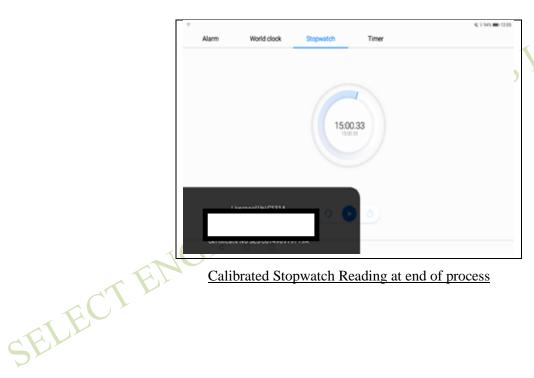
Pictures taken of the autoclave equipment at the time of the calibration.





Machine Temperature Controller at setpoint

Machine Pressure Gauge at setpoint



Calibrated Stopwatch Reading at end of process

The reported expanded uncertainty is based on a standard uncertainty multiplier' confidence of approximately 95%. The uncertainty evaluation has been

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uncertainty multiplier aluation has bee	, a level of . 17025.
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