


CERTIFICATE NO. M11000/AC/02

CERTIFICATE OF CALIBRATION

CUSTOMER DETAILS									
CUSTOMER Microtechnica Limited									
ADDRESS 47 South Avenue, Kidlington, Oxford, OX5 1DG									
PARTICLE COUNTER DETAILS									
MODEL Lighthouse Solair 3200+									
SERIAL NUMBER 080239012				REFERENCE ID None					
CALIBRATION TEST INSTRUMENTATION									
INSTRUMENT	SERIAL NUMBER	CERTIFICATE NUMBER	CALIBRATION EXPIRY						
PHA	uT-4004	M10974/AC/01	16 Oct 2014						
DMM	15650574	1302267	04 Apr 2014						
Rotameter	F119856/1	33445	09 Sept 2014						
ISO 21501 Reference	uT-5001	M11013/AC/01	02 Jan 2015						
PRE CALIBRATION CHANNEL SETTINGS									
Size (µm)	0.3	0.5	1.0	3.0	5.0	10.0	----	----	
Threshold	49 mV	204 mV	694 mV	1527 mV	2352 mV	3542 mV	----	----	
PERFORMANCE DETAILS									
Particle Size (µm)	Lot Number	Expiry Date	Output						
0.296	41699	Feb 2016	44 mV	Calibration Volt.				N/A	
0.498	41529	Dec 2015	193 mV	Flow Rate Uncertainty (≤ 5.0%)				Pass	
1.019	41321	Oct 2015	700 mV	Noise				33.0 mV	
4.800	42341	Aug 2016	2224 mV	Signal/Noise (≥ 1.3)				1.4:1	
9.800	40260	Mar 2015	3596 mV	Size Resolution (≤ 15.0%)				12.8%	
				Counting Eff. (50% ± 20%)				53.4%	
				Extra Details:					
				None					
COMMENTS Instrument within specification									
POST CALIBRATION CHANNEL SETTINGS									
Size (µm)	0.3	0.5	1.0	3.0	5.0	10.0	----	----	
Threshold	46.8 mV	195 mV	681 mV	1876 mV	2259 mV	3661 mV	----	----	
THE INSTRUMENT MEETS THE REQUIREMENTS OF ISO 21501-4:2007 AND IS SUITABLE FOR USE									
NAME Alan Carter				CALIBRATION DATE 22 Jan 2014					
SIGNATURE 				NEXT CALIBRATION DUE Jan 2015					