



**PARTICLE
MEASURING
SYSTEMS**
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a spectris company

REVIEWED & ACCEPTED

SIGN: CHANG MEI LAN

DATE: 22 AUG 19

REMARKS: FAID 0481

for Mond Summa 22 Aug 19

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Certificate of Calibration

Company : Flextronics Manufacturing (Singapore) Pte Field Office : Singapore
Instrument : Liquilaz E20P Temperature : $24 \pm 3^\circ\text{C}$
Serial Number : 51053 Humidity : $55 \pm 10\%$
Job Number : WO319692

☐ Customer Recommended Calibration

Calibration Date : 21-Aug-19

☒ PMS Recommended Calibration

Calibration Due : 21-Aug-20

PMS-SIN certifies that the instrument listed above meets or exceeds all published specifications and has been calibrated using equipment and standards whose accuracies are traceable to the USA National Institute of Standards and Technology (NIST). Our calibration processes satisfy ANAB ISO9001:2008 requirements. This instrument was calibrated in accordance with the Particle Measuring Systems quality system documentation. This certificate may not be reproduced, except in full, without the written consent from Particle Measuring Systems.

Calibration Standards

Procedure Used : 2745 Rev. F

Instrument Condition Received:

☒ In Tolerance

☐ Out of Tolerance

☐ Operational Failure

☐ Physical Damage

Out of Tolerance Description: N.A.

Instrument Condition Shipped:

☒ Meets PMS Specification

☐ Others (description attached)

Standards Used :

Particles

Manufacturer	Particle Size	Standard Deviation	Lot No.	Expiration Date
Duke	2.020 μm	0.021 μm	207231	Feb-22
Duke	5.027 μm	0.05 μm	189112	Sep-20
Duke	10.03 μm	0.09 μm	190234	Oct-20
Duke	14.97 μm	0.13 μm	207255	Feb-22
Duke	20.06 μm	0.22 μm	194218	Feb-21
Duke	24.61 μm	0.27 μm	192057	Dec-20
Duke	29.88 μm	0.39 μm	202599	Sep-21

Data Records :

Function Tested	Reported Value	Specifications	Function Tested	Reported Value	Specifications
Power Supply Volt.	+14.24 (V_{DC})	+15 (V_{DC}) $\pm 10\%$	DC Light	8.3 (V_{DC})	8.4 ± 0.5 (VDC)
Power Supply Volt.	-13.92 (V_{DC})	-15 (V_{DC}) $\pm 10\%$	Laser Diode Power	5.6 (mW)	6 ± 1 (mW)
Power Supply Volt.	+4.95 (V_{DC})	+5 (V_{DC}) $\pm 10\%$			

Instrument Used :

Type	Serial Number	Calibration Date	Calibration Due
FC-100-4	3717-1297-941	-	-
Agilent DSO5012A	7040040	16-Jan-19	16-Jan-20
VSPI	40792	-	-

Calibrated By :
Service Engineer : Wong Jia Wei

Verified By :
Service Engr Supervisor : Isaac Lim