

# Certificate of Calibration

## Fluke Nederland B.V.

<b>Certificate Number:</b>	SA01185224	<b>Date of Calibration:</b>	13 Jul 2023
<b>Receive Condition:</b>	IN TOLERANCE	<b>Date of Recalibration:</b>	13 Jul 2024
<b>Return Condition:</b>	IN TOLERANCE	<b>Place of Calibration:</b>	Eindhoven
<b>Manufacturer:</b>	FLUKE NETWORKS	<b>Temperature within:</b>	(23.0 ± 3) °C
<b>Model:</b>	CFP-QUAD MOD	<b>Humidity within:</b>	(45 ± 20) %rh
<b>Serial Number:</b>	22110162		
<b>Description:</b>	CERTIFIBER PRO QUAD OLTS REPLACEMENT MODULE 1 UNIT		
<b>Procedure:</b>	Manual Procedure		

**Customer:** OMIKRON INFORMATIKA KFT  
BUDAPEST

**Customer Asset ID:** -

**RMA Number:** 606305946

All measurements are traceable to national and/or international standards or have been derived by approved ratio techniques. When possible standards used for this calibration are ISO/IEC 17025 accredited calibrated.

This calibration is performed by a DEKRA certified lab for ISO 9001. This certificate may not be reproduced other than in full. Calibration certificates without signatures, either electronic or handwritten, are not valid.



**Issue Date:** 19 Jul 2023

Electronically signed

**Authorized By**

R. Mehta

## Certificate of Calibration

**Certificate Number:** SA01185224

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**Remarks**

- The calibration status found in this certificate on the top of each results page must be interpreted as:
  - As Found : Data collected before the unit was adjusted and / or repaired
  - As Left : Data collected after the unit has been adjusted and / or repaired
  - Found / Left : Data collected without any adjustment and / or repair performed
- The calibration interval (due date) is the responsibility of the end user.
- According to the European norm 'Operation of electrical installations' NEN-EN 50110-1 release 2013 and the Dutch norm NEN 3140 release 2015 paragraph 5.102.12 through 5.102.16, a safety test is not required. Therefore not performed.
- Temperature conversions (if applicable) are performed according to ISO/IEC 60584:2013 for thermocouples, and ISO/IEC 60751:2022 for resistance temperature devices.

**Standards and test-equipment used**

Inventory No	Model	Serial No
WP2199	1BBS4-001K-ART	832538
WP2198	6BBS4-001K-ART	832533
WP2933	FPM-8220	82202109
WP2193	FPM-8220	82201478
WP2603	OMM-6810B	68104229

Calibration Data Report

Found - Left

Model **CFP-QUAD**  
Serial Number **22110162**

Test date 13-Jul-2023

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**Power Meter - 850 Measured in dB**

Nominal	RefRdg	UUTRdg	Diff	LinErr	AbsTol	LinTol	Result
-3	-2.938	-2.778	-0.16	0.002	0.25	0.085	Pass
-5	-4.942	-4.782	-0.16	0.002	0.25	0.085	Pass
-10	-9.931	-9.769	-0.162	0	0.2	0.085	Pass
-15	-14.919	-14.772	-0.147	0.015	0.25	0.085	Pass
-20	-19.922	-19.781	-0.141	0.021	0.25	0.085	Pass
-25	-24.929	-24.787	-0.142	0.02	0.25	0.085	Pass
-30	-29.909	-29.774	-0.135	0.028	0.25	0.085	Pass
-35	-34.894	-34.759	-0.135	0.027	0.25	0.085	Pass
-40	-39.906	-39.771	-0.135	0.027	0.25	0.085	Pass
-45	-44.882	-44.743	-0.139	0.023	0.25	0.085	Pass
-50	-49.932	-49.795	-0.137	0.025	0.25	0.085	Pass
-55	-54.903	-54.77	-0.133	0.029	0.25	0.085	Pass
-56	-55.901	-55.772	-0.129	0.034	0.3	0.15	Pass

**Power Meter - 1310 Measured in dB**

Nominal	RefRdg	UUTRdg	Diff	LinErr	AbsTol	LinTol	Result
-3	-3.086	-3.067	-0.019	-0.02	0.25	0.085	Pass
-5	-5.129	-5.15	0.021	0.02	0.25	0.085	Pass
-10	-10.09	-10.091	0.001	0	0.2	0.085	Pass
-15	-15.079	-15.067	-0.012	-0.013	0.25	0.085	Pass
-20	-20.079	-20.067	-0.012	-0.013	0.25	0.085	Pass
-25	-25.078	-25.069	-0.009	-0.01	0.25	0.085	Pass
-30	-30.074	-30.068	-0.006	-0.007	0.25	0.085	Pass
-35	-35.08	-35.069	-0.011	-0.012	0.25	0.085	Pass
-40	-40.079	-40.067	-0.012	-0.013	0.25	0.085	Pass
-45	-45.074	-45.067	-0.007	-0.008	0.25	0.085	Pass
-50	-50.071	-50.064	-0.007	-0.008	0.25	0.085	Pass
-55	-55.076	-55.065	-0.011	-0.012	0.25	0.085	Pass
-56	-56.075	-56.066	-0.009	-0.01	0.3	0.15	Pass

**Loss Length - 1300 Measured in meters**

Expected	Measured	Lower Limit	Upper Limit	Result
1002.20	1003.76	993.00	1011.40	Pass

**Loss Length - 1550 Measured in meters**

Expected	Measured	Lower Limit	Upper Limit	Result
1004.70	1004.13	995.50	1013.90	Pass

**VFL Output Level Measured in watts**

Measured	Lower Limit	Upper Limit	Result
0.000796	0.0006	0.0009	Pass