



CALIBRATION CERTIFICATE

Customer:	Address:		
Description: Optical Time Domain Reflectometer (OTDR)			
Serial no.: 903250	Model no.: 730C-SM3-EA		
Calibration location: 400 Godin Avenue, Quebec City, QC, G1M 2K2, Canada			Calibration date: 2016-03-17

As found

<input checked="" type="checkbox"/> Initial calibration	<input type="checkbox"/> Within specifications (i)	<input type="checkbox"/> Within specifications* (ii)	<input type="checkbox"/> Outside specifications* (iii)	<input type="checkbox"/> Outside specifications (iv)	<input type="checkbox"/> Defective operation
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*See results page for details on "As found" status

Comments on unit status:

Action taken

<input type="checkbox"/> No adjustment was made	<input checked="" type="checkbox"/> Adjustments were made	<input type="checkbox"/> Repair was performed
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As left

<input checked="" type="checkbox"/> Within specifications	<input type="checkbox"/> Outside specifications
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Calibration conditions

Temperature: 23 °C ± 2 °C

Standard(s) used to establish traceability

Description	Inventory number	Calibration date	Calibration validity
Standard(s) used for "As left" measurements			
METAS Length Reference Fiber SM	LRF2013.03	2013-03-19	Indefinite

Remarks:

Optical ports are always cleaned before calibration.
EXFO certifies that the unit has been calibrated using standards traceable to a national metrology institute (NIST, NPL, NRC, METAS or other), natural physical constants or using ratio measurements. NIST is the National Institute of Standards and Technology in the USA, NPL is the National Physical Laboratory in the UK, NRC is the National Research Council in Canada and METAS is the Swiss Federal Office of Metrology. All uncertainties are reported with a level of confidence of 95 %. Calibration is based on the ISO/IEC 17025 standard.
The certificate shall not be reproduced, except in full, without the written approval of EXFO.

Edita Hodzic

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Calibration operator

2016-03-17
Date



Dynamic range test (Single Mode)			
Procedure: IETA-00366 (pulse: 10 μ s, range: 240 km, time: 45 s)			
Nominal wavelength (nm)	Measured dynamic range (dB)	Test limit (dB)	Verification
As left			
1310	41.0	37.5	Pass
1550	38.0	35.0	Pass
1625	39.0	35.1	Pass

Attenuation dead zone test (Single Mode)			
Procedure: IETA-00366 (pulse: 10 ns, range: 0.65 km, reflectance: -45 dB)			
Nominal wavelength (nm)	Measured attenuation dead zone (m)	Test limit (m)	Verification
As left			
1310	3.65	4.47	Pass
1550	3.84	4.70	Pass
1625	3.91	4.77	Pass

Event dead zone test (Single Mode)			
Procedure: IETA-00366 (pulse: 3 ns, range: 0.65 km, reflectance: -45 dB)			
Nominal wavelength (nm)	Measured event dead zone (m)	Test limit (m)	Verification
As left			
1310	0.47	0.55	Pass
1550	0.47	0.59	Pass
1625	0.49	0.64	Pass



Distance calibration (Single Mode)							
Procedure: IETA-00366 (pulse: 30 ns, range: 3.5 km, time: 15 s)							
Nominal wavelength (nm)	Measured length (m)	Reference length (m)	Deviation (m)	Uncertainty (m)	Specification (m)	Conformance limit (m)	Verification*
As left							
1310	2352.40	2352.30	0.10	0.06	0.97	0.92	i
1550	2353.20	2353.24	-0.04	0.28	0.97	0.74	i
1625	2354.00	2353.89	0.11	0.18	0.97	0.82	i

Linearity test (Single Mode)		
Procedure: IETA-00366 (wavelength: 1310 nm, pulse: 10 μ s, range: 25.3 dB, time: 45 s)		
Measured non linearity (dB)	Test limit (dB)	Verification
As left		
0.02	0.03	Pass

OTDR Self-Test
Procedure: IETA-00366
Status (Pass/Fail)
As left
Pass

* Verification status legend:

- i) Within specifications;
 - ii) Within specifications: All measured results are within specifications limits. In conformance with ISO/IEC 17025, full compliance cannot be stated because of measurement uncertainties. Nevertheless, results indicate that the instrument is likely to perform according to specifications;
 - iii) Outside specifications: Some measured results are outside specification limits. Nevertheless, as per ISO/IEC 17025, non compliance cannot be stated because of measurement uncertainties;
 - iv) Outside specifications.
- Unless otherwise stated, 100 % of shipped units have all "As left" results in case i.