

Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

Swiss Confederation

### **SCS Directory**

Federal Department of Economic Affairs, Education and Research EAER

State Secretariat for Economic Affairs SECO Swiss Accreditation Service SAS

## Accreditation number: SCS 0101

International standard:	ISO/IEC 17025:2017
Swiss standard:	SN EN ISO/IEC 17025:2018

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Initial accreditation:	11.03.2002
Current accreditation:	11.03.2022 to 11.03.2027
Scope of accreditation see:	www.sas.admin.ch (Accredited bodies)

### Scope of accreditation as of 11.03.2022

#### Calibration laboratory for fiber optic measurement instruments

Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty ± <sup>1)</sup>	Remarks
Optical power	5 µW (-23 dBm)	λ = 850 nm	1.3 % (0.06 dB)	Also on-site
	100 µW (-10 dBm)	λ = 1310 nm	1.0 % (0.04 dB)	
	100 µW (-10 dBm)	λ = 1550 nm	1.0 % (0.04 dB)	
Linearity	6.3 µW / 6.3 nW	λ = 850 nm	1.5 % (0.07 dB)	
	(-22 dBm / -52 dBm)			
	100 µW / 6.3 nW	λ = 1310 nm	0.01 dB $\sqrt{\frac{x}{3 dB}}$	
	(-10 dBm / -52 dBm)	λ = 1550 nm	<b>101 11 1 1 3</b> dB	
			x in dB	
			0 dB x dB (x < 42 dB)	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Uncertainty ± <sup>1)</sup>	Remarks
Calibration of OTDR SM modules	Distance: 0 km - 100 km	λ: 1310 nm / 1550 nm	Distance scale deviation: 3 · 10 <sup>-5</sup> m/m Position offset: 0.2 m	
	Attenuation: 0 dB - 30 dB	λ: 1310 nm / 1550 nm / 1625 nm	Attenuation scale devia- tion: 0.01 dB/dB	
Calibration of OTDR MM modules	Distance: 0 km - 10 km	λ: 850 nm / 1300 nm	Distance scale deviation: 6 · 10 <sup>-4</sup> m/m Position offset: 0.5 m	

In case of contradictions in the language versions of the directories, the Italian version shall apply.

Abbreviation	Signification
MM	Multi mode
OTDR	Optical Time Domain Reflectometer
SM	Single mode

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dfp/dil