



# SCN-46 S-line Scan 416

# **Basic characteristic**

- S-line Scan 416 is interrogator with 16 optical channels consisting of S-line Scan 400 module and S-line Switch 1x16 module.
- S-line Scan 416 is extendable with S-line Splitter or Computer modules.
- S-line Scan 416 is provided with Sentinel 2.0 measurement software.



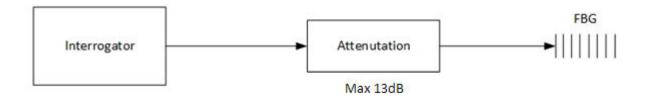
S-line Scan 416 can be simply re-configured into S-line Scan 404 or S-line Scan 436 by replacing the 1x16 switch with 1x4 or 1x36 switch modules.

Performance properties		
Number of channels		16
Scanning frequency <sup>1)</sup>		0.5Hz (32 seconds through all 16 channels)
Wavelength range		40nm (1528-1568nm)
Operational Temperature range		-5°C to +50°C
Storage Temperature range		-10°C to +60°C
Dynamic range <sup>2)</sup>		15dB
Power budget 3)		15dB
Accuracy	@ 25°C // @ FOTR <sup>4)</sup>	TBT // ±20pm
Repeatability (Precision)	@ 25°C // @ FOTR <sup>4</sup> )	8pm // 15pm
Resolution		1pm
Laser Class	IEC 60825-1	1

<sup>1)</sup> Slower data logging is available through down sampling.

- <sup>2)</sup> Maximum attenuation that can be inserted in the optical line between the interrogator and the measured FBG, or series of FBG's on a same power level (see Figure 1)
- <sup>3)</sup> Maximum attenuation that can be inserted between the FBG's with the highest and lowest power level in one channel (see Figure 2)
- <sup>4)</sup> FOTR = Fully Operational Temperature Range (-5°C to +50°C).

All parameters tested with FBG's FWHM 200pm and 40% Reflectivity.



#### Figure 1: Max. allowed attenuation within optical line (bidirectional)

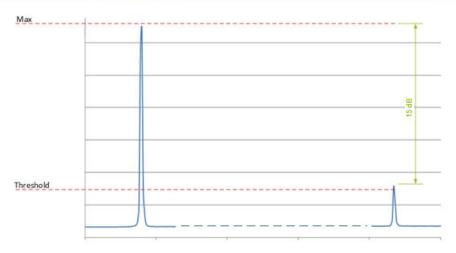
Siège social: FTMesures - 179 ROUTE DE SAINT PAUL - 74330 EPAGNY METZ-TESSY, France - Téléphone: +33450246149 http://www.ftmesures.com/- info@ftmesures.com Société à responsabilité limitée (SARL) - Capital de 10 000 € - SIRET: 79955370600018NAF-APE: 2651B RCS/RM: 799 553 706 R.C.S. Annecy -

Societe a responsabilite limitee (SARL) - Capital de 10 000 €- SIREI: 79955370600018NAF-APE: 2651B\_RCS/RM: 799 553 706 R.C.S. Annecy-Numéro TVA: FR25799553706





# SCN-46 S-line Scan 416



### Figure 2: Power budget

Physical properties	
Dimensions (without cable)	300x200x84mm
Weight (without cable)	4,27kg
Connector type	FC/APC
Power consumption	6W (9-18V) (universal adapter included)
Interface	USB, ModBus RTU

# Packaging

Cardboard box with dimensions: 364x351x140mm (see Figure 3) Optional - Ruggedized transportation case with dimensions: 555x428x211mm (see Figure 4) Quality statement

All interrogators are 100% tested at SYLEX Interrogator is manufactured according to ISO 9001:2008 and ISO 14001:2004

# **Accessories (included):**

- Sentinel 2.0 automated data acquisition and evaluation software
- ▲ Standard extension patchcord (SPA-02)
- Power adapter, 90-264V input range, 12V/2A output, with EU-UK-US compatible sockets

# **Recommended accessories within S-line family:**

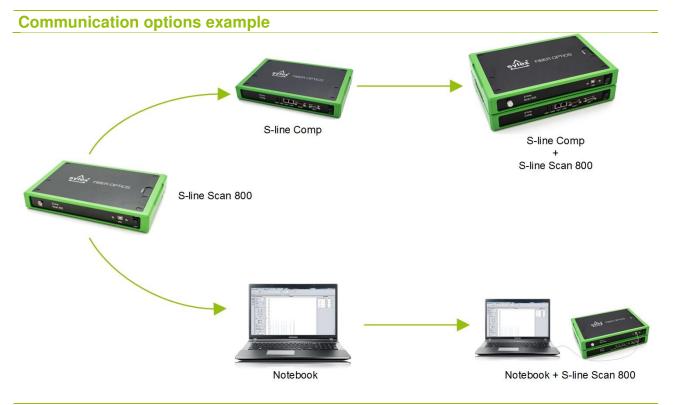
- S-line Switches 1x4 (SWS-04), 1x36 (SWS-36)
- S-line Comp (SPC-02)
- S-line Splitters 1x2 (SPL-02), 1x4 (SPL-04), 4x16 (SPL-16)
- S-line View 1.0 web-based data management software for collection, analysis, validation and visualization of measured data
- Transportation case

iete a responsabilite limitee (SARL) - Capital de 10 000 6 - SIREI: 79955370600018NAF-APE: 2651B RC5/RM: 799 553 706 R.C.S. Annecy-Numéro TVA: FR25799553706









**Packaging options** 



\* Specifications are subject to change without notice

Siège social: FTMesures - 179 ROUTE DE SAINT PAUL - 74330 EPAGNY METZ-TESSY, France - Téléphone: +33450246149 http://www.ftmesures.com/- info@ftmesures.com Société à responsabilité limitée (SARL) - Capital de 10 000 € - SIRET: 79955370600018NAF-APE: 26518 RCS/RM: 799 553 706 R.C.S. Annecy -Numéro TVA: FR25799553706