

## SCN-84 S-line Scan 804

### Basic characteristic

- ▲ **S-line Scan 804** is interrogator with 4 optical channels consisting of S-line Scan 800 module and S-line Switch 1x4 module.
- ▲ **S-line Scan 804** is extendable with S-line Splitter or Computer modules.
- ▲ **S-line Scan 804** is provided with Sentinel 2.0 measurement software.
- ▲ **S-line Scan 804's** depolarized light source greatly reduces unwanted polarization effects.
- ▲ **S-line Scan 804** can be also simply re-configured into S-line Scan 816 or S-line Scan 836 by replacing the 1x4 switch with 1x16 or 1x36 switch modules.



### Performance properties

|                                  |                                |                    |
|----------------------------------|--------------------------------|--------------------|
| Number of channels               |                                | 4                  |
| Scanning frequency <sup>1)</sup> |                                | 1 Hz               |
| Wavelength range                 |                                | 80nm (1510-1590nm) |
| Operational Temperature range    |                                | -5°C to +50°C      |
| Storage Temperature range        |                                | -10°C to +60°C     |
| Dynamic range <sup>2)</sup>      |                                | 30dB               |
| Power budget <sup>3)</sup>       |                                | 18dB               |
| Accuracy                         | @ 25°C // @ FOTR <sup>4)</sup> | TBT // ±13pm       |
| Repeatability (Precision)        | @ 25°C // @ FOTR <sup>4)</sup> | 6pm // 12pm        |
| Resolution                       |                                | 1pm                |
| Laser Class                      | IEC 60825-1                    | 1                  |

1) Slower data logging is available through down sampling.

2) 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](#)).

3) Maximum attenuation that can be inserted between the FBG's with the highest and lowest power level in one channel (see [Figure 2](#)).

4) FOTR = Fully Operational Temperature Range (-5°C to +50°C).

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

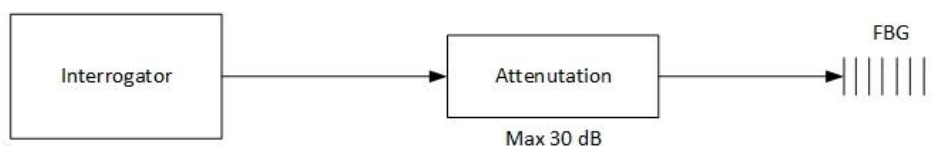


Figure 1: Max. allowed attenuation within optical line (bidirectional)

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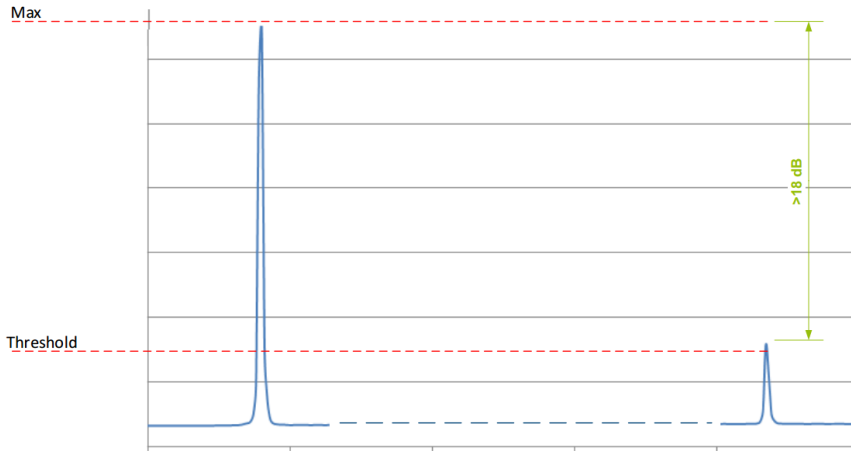


Figure 2: Power budget

**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                                     |

**Packaging**

Standard - Cardboard box with dimensions: 364x351x140mm (see [Figure 3](#))

Optional - Ruggedized transportation case with dimensions: 502x401x188mm (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):**

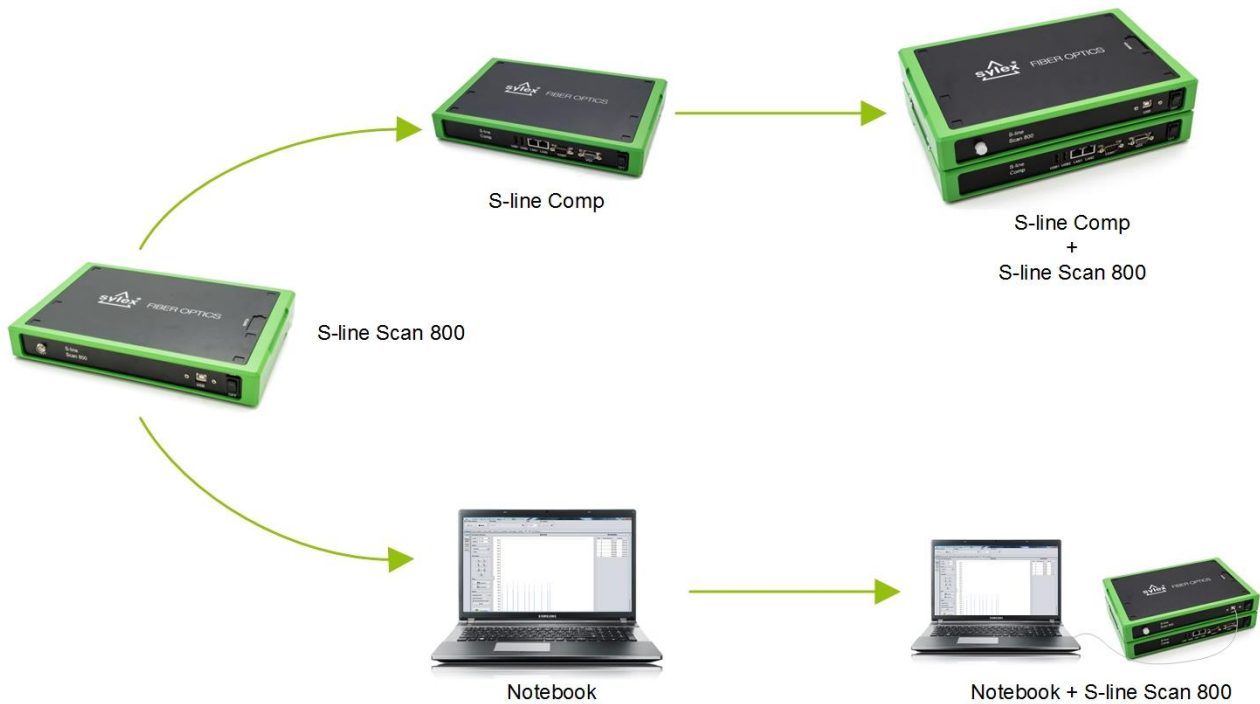
- ▲ Sentinel 2.0 – automated data acquisition and evaluation software
- ▲ Standard extension patchcord (SPA-02)
- ▲ Power adapter, 90-264V input range, 12V/2A output, with EU-UK-US compatible sockets

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

- ▲ S-line Switches – 1x16 (SWS-16), 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

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**Communication options example**



**Packaging options**



Figure 3: Cardboard box as standard packaging



Figure 4: Waterproof, crash proof and dust proof transportation case as optional packaging

For more information contact our sales team at [sales@sylex.sk](mailto:sales@sylex.sk)  
 \* Specifications are subject to change without notice