



## DITEST-SO-N-SERIES – MULTIPLE CHANNEL EXTENSION MODULE FOR FIBER OPTIC DISTRIBUTED MONITORING

### FEATURES & BENEFITS

- *Up to 20 additional measurement channels*
- *Maintenance-free, robust and long lifetime design*
- *Direct control through DITEST software, enabling user-defined automatic cycles*
- *LCD display with channel information and measurement status*

### SO-N SERIES OPTICAL SWITCHES

SO-N-Series Optical Switch modules are designed to extend the measurement capabilities of Omnisens DITEST fiber optic distributed temperature and strain monitoring systems by providing additional measurement channels.

Optical switches are commonly used for applications where multiple measurement channels are required to monitor large networks commonly found in power distribution, complex civil engineering structures, oil & gas pipelines and wells, ...

Omnisens SO-N-Series switches rely on robust and long lifetime design featuring very large number of cycles and very low insertion loss. The optical switch modules are interfaced directly with the DITEST user interface for channel control and automatic cycling.

The number of channels ranges from 4 to 20 in a single unit with the possibility to cascade multiple SO-N Series module to further increase the number of measurement channels.

### TECHNICAL SPECIFICATIONS

Compatibility	DITEST-SERIES instruments
Optical cable configurations	2-fiber-loop configuration or 1-single-fiber configuration
Measurement channels (N)	4 to 20
Optical connections	E2000/APC
Switching time	< 1 sec (inc. measurement settings adjustment)
Number of switching cycles	10 Mio
Insertion loss per channel	< 1.5 dB
Communication	RS232 protocol
Distance between DITEST and switch	10m max
Dimensions	449 x 305 x 132.5 mm (19" rack enclosure 3U high)
Operating temperature	0° - 40°C
Storage temperature	-10° - 50°C
Supply voltage / consumption	100-240 VAC / max 5W
Weight	2 kg

OMNISENS SA  
Tel: +41 21 510 21 21 - Fax: +41 44 274 20 31  
sales@omnisens.com - www.omnisens.com