



Technical features	DiAS 0-30km	DiAS Long Range 0-50km
Measurement range per channel:	30 km	50 km
Built-in channels:	1 channel (2 channels optional)	
Sensor configuration:	Single ended	
Sensing fiber:	Standard single mode optical fibers: ITU G.652, ITU G657, ITU G.655	
Spatial resolution:	2 to 20 m	
Optical loss budget—sensing at 1550 nm:	6 dB	10 dB
Acoustic sensing band width:	1 kHz	
Sampling rate:	2 KHz	

### Technical specifications

Data storage capacity:	Internal: HDD 4TB RAID1 (equivalent to 2.5 day of strain/raw data for 20 km monitoring) External: optional additional RAID up to 256TB
Data format:	HDF5— Open source
Protection rating	IP20
Data flow:	- Raw data: 50MB/ min / km / kHz sampling / at 10m SR - Compressed data: 25kB / min / km / Frequency band 10m SR Data recording both raw data and compressed data
GPS timing:	20 microseconds accuracy
Optical connectors:	SC/APC (E-2000 available on request)
Dimensions (W x H x D) mm:	Optical Unit: 483x132x435 Processing Unit: 483x177x448 19" rack mountable – 3U + 4U
Weight:	Optical unit: 8 kg / Processing unit: 19kg
Power supply:	100-240V and 50-60Hz AC
Power consumption:	Optical unit: typical 30 – Max 70 W depending on configuration Processing unit: typical 230 – Max 500 W depending on configuration
Operating temperature:	0° C to 40° C
Transportation/storage temp:	-10° C to 60° C
Ambient humidity:	5 to 85% RH (no condensation)
MTBF / lifetime:	10 years / 25 years
Embedded system	Linux

### Standards

EN 61326-1:2013 (IEC 61326-1:2012, ed2.0)

Electrical equipment for measurement, control and laboratory use -- EMC

EN 61000-6-2:2005 (IEC 61000-6-2:2005, ed2.0)

Electromagnetic compatibility -- Immunity for industrial environments

EN 61010-1:2010 ( IEC 61010-1:2010)

Electrical equipment for measurement, control, and laboratory use – Laser class 1M

### Accessories and Ordering information

- 16.2011.PU DiAS Processing Unit
- 20.2010 DiView Data Management Software

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