

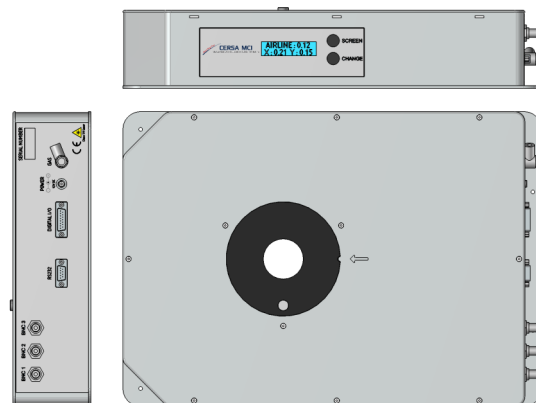
SPECIFICATIONS

AIR AIRline detector

The **AIR** is designed to detect **airline defect** (bubble into the preform stretched during drawing) into optical fiber. It uses the interferometric fringes pattern produced by a fiber when placed in a laser beam. The measurement principle allows ultra fine airline detection, down to 0.3µm.

The measurement is fiber position and vibration independent.

The AIR is the only instrument able to detect **100% airline** (with or without spinning).



PRODUCT		AIR
Performances		
Measurement window	Disk diameter	3.0 mm
Fine Airline detection (covers 100% of the fiber section)	Minimum diameter airline	0.3 µm ¹
	Measurement rate	400 measurements/sec
X&Y position measurement	Range	+/-2mm
	Uncertainty	+/-0.1mm
	Measurement rate	1000 measurements/sec
Vibration frequency measurement	Method	Compute by FFT
Communications		
Serial RS232 (SUB-D 9 pins)	Baudrate	115200
Digital (SUB-D 15 pins)	Digital output (open collectors)	8
	Digital input (length counting and reset)	2
Analogic output	BNC (+/-10V)	3
Environmental & general data		
Temperature	Ambient T°	10 - 40°C
	Max internal T° ²	55°C
	Storage T°	0 - 60°C
Laser source	Laser type	Class 1M
Power	Power supply	12Vdc 45W
Dimensions	Dimensions (LxWxH)	470 x 330 x 96 mm
	Weight	9 kg

Remarks:

¹ certified for standard telecom fiber (single-mode or multi-mode). For specif fibers, please contact us.

² provide air flow of 5 to 20l/min to clean the optics and cool down the electronic

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Technical data are subject to change without notice