

OMC introduces a family of sensors for its profiling system

OMC have revised the design of the original LP 15/50 profiler to enable a variety of measurement heads to be factory fitted to a universal body. This allows the user to select a specific measurement range and accuracy for a given application.

The first Laser Profiler design provided a relatively large measurement range covering pipe diameters from 150 to 500 mm. Such a large range comes at a price, the accuracy of this system falls off considerable for larger pipes and structures. In some cases, this is not an issue as the high number of measurements that are taken enable averaging to derive better results for slowly changing surface profiles. Some applications will require higher accuracy where a shorter range may be acceptable. Example measurement heads that can be used are:

High accuracy

Range (mm)	2	10	20	50	100	200
Accuracy (+/- μm)	2	8	16	40	80	200

Medium accuracy

Range (mm)	5	10	20	50	100	200*
Accuracy (+/- μm)	10	20	140	100	200	800

* Sensor used in the LP 15/50

In addition other sensors types can be used such as long-range time of flight Lasers, magnetic, contact and ultrasonic heads. Each profiler system will be customized to order. Modification of existing systems is also possible.



Generic profiler body



Profiler body with a specific head