

LIXmeter

The **LIXmeter** is an immediately display measuring device for ionizing radiation (X-radiation) generated by ultrashort pulse lasers during material processing. The sensor has different interfaces and is delivered with a software for recording of measured values. An integration in the machine control system as well as individual adaptations are possible. The sensor is self-monitoring and signals exceeding of predefined thresholds.

The sensor is available in three variants:

- **machine control sensor:** assembly within protective housing
- **sensor for work place control:** assembly in front of the machine, in the people room
- **hand sensor:** control of protective housing tightness in normative distance of 10 cm

Technical details:

measuring range of ionizing radiation:	3 keV bis 50 keV
lower measuring limit:	$H'(0,07) \geq 3 \mu\text{Sv/h}$
measurement interval:	< 0,5 s
measuring surface:	< 1 cm ² (so guidelines of radiation protection regulations are maintained)
interface:	Ethernet (individually adaptable)
display of data:	PC Software
power supply:	12 V DC
temperature range:	0 °C - 50 °C
housing dimensions:	51 mm x 51 mm x 41 mm
fastening:	M6 and ¼"-20 UNC thread



Detection of laser induced X-ray emission from ultrashort pulse laser material processing

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