

# Inline Refractometer

L-Rix 2100 / L-Rix 3100





# A Sensor as Unique as You

We bring you what you have long been waiting for: an inline refractometer for continuous Brix concentration monitoring in metalworking machines (e.g. cooling lubricants, aqueous polymer quenching fluids), industrial processes, and fruit and vegetable processing. L-Rix 2100 and L-Rix 3100 provide a unique combination of best-in-class quality, price, accuracy, and compactness.



**Increase the lifetime of tools and machines**



**Optimize the quality of manufactured products**



**Reduce downtime**



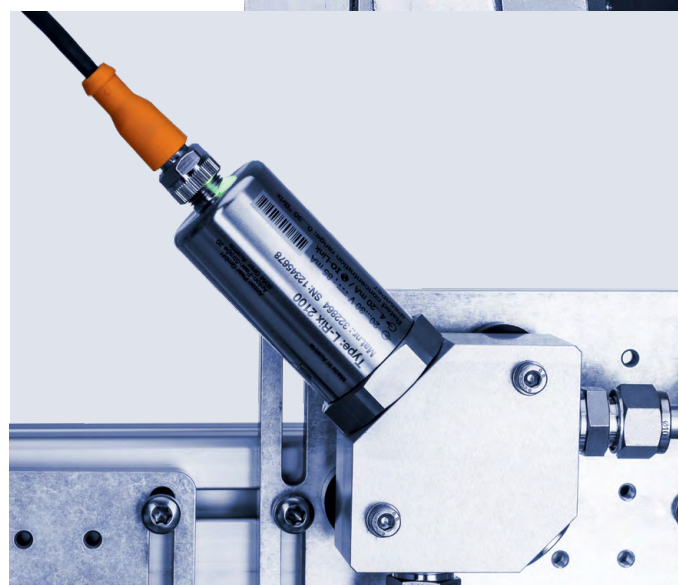
**Minimize maintenance costs**



**Ensure reliable performance for years**



**Master challenging industrial conditions**



FIND OUT MORE

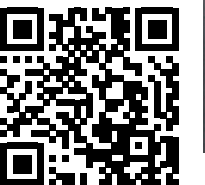




# L-Rix 2100 and L-Rix 3100



WATCH NOW



## Production perfection

Continuous concentration monitoring is crucial since concentration is a key parameter for production perfection in various processes. It prevents the wear and tear of cutting tools and optimizes the quality of the cooling lubricant – which directly influences the surface finish, as well as the dimensional accuracy of the machined part. In food processing it ensures consistent quality and reduction of production losses. With our sensor we enable continuous Brix monitoring – ensuring optimal concentration and operational parameters, as well as minimal resource usage, all the time.

## Unparalleled precision

In this class, L-Rix delivers unparalleled, error-eliminating precision and compactness:

- Up to  $\pm 0.15^\circ$  Brix accuracy
- Compact design – more than 3x smaller than comparable instruments on the market

We give you access to these high-accuracy instruments at a competitive price point, so that you benefit from an ideal balance between cost and performance. This unique combination of affordability with superior accuracy makes your investment absolutely worth it.





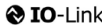




## Supreme quality

The instrument is a testament to supreme quality: Built of sapphire, it is produced in a 'clean room' to prevent any dust particles becoming embedded in it, which would jeopardize the final product. There is built-in self-diagnosis so you can identify coating build-up and prevent inaccurate readings. We provide an IO-Link interface also delivering diagnostic information.

## Continuous performance

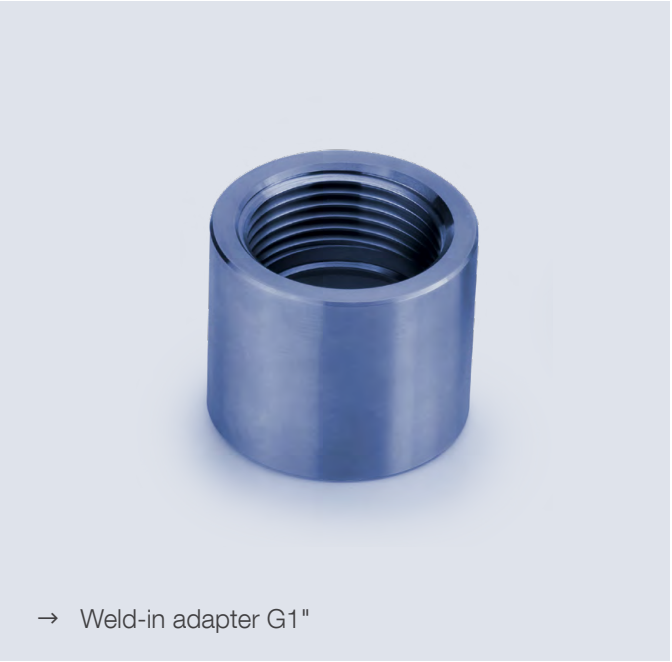
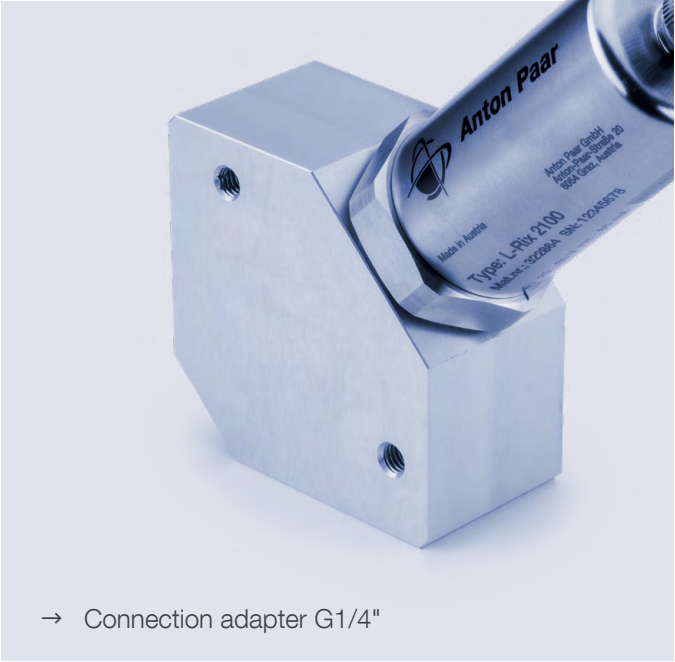
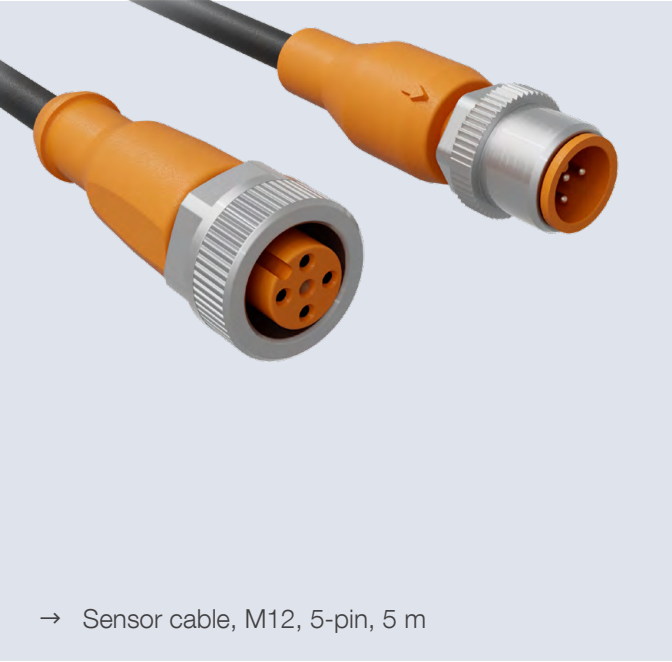
With L-Rix you are up-and-running fast: L-Rix comes pre-configured. Once installed, there's no need to worry about it. Its durable design ensures 15+ years of operation in tough industrial environments. This all reduces downtime, minimizes maintenance costs, and ensures continuous reliable performance in challenging industrial conditions, for years to come.



L-Rix 2100		L-Rix 3100	
↓		↓	
LED status indication		✓	
Measuring range	1.3268 nD to 1.3830 nD (0 °Brix to 30 °Brix)	1.3268 nD to 1.4215 nD (0 °Brix to 50 °Brix)	
Accuracy	±0.20 °Brix	±0.15 °Brix	
Repeatability	±0.10 °Brix	±0.075 °Brix	
Housing	Stainless steel 1.4305 and plastic material		
Process wetted parts	Sapphire (Al <sub>2</sub> O <sub>3</sub> – 99.997 %), Stainless steel 1.4305, VICTREX FG 200 (PEEK)	Sapphire (Al <sub>2</sub> O <sub>3</sub> – 99.997 %), Stainless steel 1.4404, VICTREX FG 200 (PEEK)	
Process connection	G1" Male, according to DIN/ISO 228		
Process temperature and pressure	0 °C to 60 °C, 0 bar to 10 bar		
Ambient temperature	-5 °C to +55 °C		
Output parameters	°Brix and temperature		
Communication	IO-Link, analog (4 mA to 20 mA)		
PLC connection	M12 sealed connector with single cable for power supply and 2x analog output		
Power supply	DC 24 V (range 20 ... 30), SELV/PELV (Class 2 circuits)		
Apparent Ohmic resistance	240 Ohm to 500 Ohm		
Dimensions (length x diameter)	114 mm x 34 mm		
Protection class	IP65, IP67		
Cleaning (using AP adapter with cleaning connection)	Water or approved cleaning agents – up to 60 °C, 5 bar max.		
Storage conditions: ambient temperature and relative humidity	-40 °C to +70 °C, 10 % to 100 %		
Certifications and approvals	<div><div></div><div></div></div>		

\*When installed together with the VARIVENT® adapter

Mechanical and electrical integration:



Reliable.  
Compliant.  
Qualified.

Our well-trained and certified technicians are ready to keep your instrument running smoothly.



Maximum uptime



Warranty program



Short response times



A global service network

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service

