

Bruker S2 POLAR Specifications

	Specification	Benefit
X-ray Tube	50 W, high-power X-ray tube, max. voltage 50 kV, with polarizing HighSense™ beam path Optionally: 30 kV max.	Max. power for short measurement times and high sample throughput, beam path optimized for petrochemical materials Simplify regulatory efforts (e.g. Austria, Belgium, France, Italy, Taiwan)
Detector	HighSense™ ULS Silicon Drift Detector	Highest count rates for fast analysis, low LLD
Atmosphere Modes*	Helium mode Vacuum mode	Optimal light element analysis of liquids Low cost of operation
Sample Preparation*	Liquid cups, SampleCare cups, Prolene and Mylar® foils, pipettes, balance	Accessories ensure high throughput of liquid samples. Low-cost per sample due to standardized liquid cups
Further Options*	Emergency Machine Off (EMO) Uninterruptible Power Supply (UPS) Sample rotation	Compliant with safety requirements Enables removing of liquid samples Enhanced precision for inhomogenous samples, such as polymer pucks
TouchControl™	Integrated 12.1" TFT touchscreen, multilingual user interface: English, German, French, Spanish, Portuguese, Italian, Russian, Chinese, Japanese	IslandMode™ without external PC Intuitive and easy-to-use, in your own language
Connectivity	Ethernet port RJ45, 3x USB ports for mouse, keyboard, and printer; HDMI/VGA ports for external display, remote access via TCP/IP	IslandMode™ but not isolated, various options for printing and network data transfer, even fully remotely
Power Supply	100-240 V, 50/60 Hz, max. 600 VA	Standard wall plug
Dimensions; width x depth x height, weight	46.6 x 74.5 x 37.0 cm, 55 kg 18.3" x 29.3" x 14.6", 121 lbs	Small and compact for installations with limited space, e.g. for on-site process control in refineries
Safety	DIN EN ISO 9001:2015, DIN EN ISO 14001:2015, 2006/42/EC (CE-certified Machinery directive), 2014/35/EC (Electrical equipment), 2014/30/EC (Electromagnetic Compatibility), German Type Approval and Vollschutz according to BfS R6V, Fully radiation-protected system; radiation <1 µSv/h (H*), Compliant to ICRP, IAEA, EURATOM	
Remarks	* Optional packages Mylar® is a trademark of DuPont Nemours Inc. HighSense™, IslandMode™, SampleCare™, TouchControl™ are trademarks of Bruker AXS.	