

SIEMENS



Performance + Efficiency + Ruggedness

SIPLUS S7-1500: First choice for maximum performance – under extreme conditions

siemens.com/siplus-extreme

Enhanced ruggedness and efficiency

The latest controller of the S7 range offers maximum performance coupled with extraordinary usability, allowing for maximum system performance and flexibility. The backplane bus ensures even faster signal processing and reduced response times, which results in increased productivity. Perfect drive integration via motion control provides a further plus in terms of power. Thanks to the standardized modular system, you can conveniently connect your PROFIdrive-capable drives and controls to the PLC via PLCopen. At the same time, the Security Integrated concept offers maximum investment protection and plant availability.

Easy handling and Totally Integrated Automation

Thanks to its unrivaled usability, SIPLUS S7-1500 is optimally suited for application in all sectors. Its numerous innovations allow for the controller's rapid mounting, connection and commissioning. A diagnostics functionality already integrated in the system provides full transparency regarding the plant state – without additional programming expenditures. A uniform, channel-granular display concept and identical visualization on all devices facilitate time savings as well as rapid and accurate system diagnostics in case of fault. Furthermore, SIPLUS S7-1500 is seamlessly integrated in the Totally Integrated Automation (TIA) Portal.

In addition to the high-end features of SIMATIC S7-1500, the refined SIPLUS extreme version is characterized by its ruggedness and offers further decisive advantages:

- Protection against medial loads (aggressive or salty atmospheres, corrosive gases) and condensation
- High reliability with extended temperature ranges – both for cold starts and continuous operation
- Energy cost savings as no additional heating or cooling is required
- High productivity and investment protection through minimized downtimes and performance losses in your automation application



Corrosive
gas



Salt mist



Temperature



Condensation
gas

Answers for industry.

Ambient conditions	SIPLUS extreme		
Climatic	-40 to +70 °C ¹⁾		
Relative humidity	EN 60068-2-38, 100 % dew formation, condensation and icing permitted		
Chemically active substances	EN 60721-3-3 3C4		
Pollutant concentration		Constant load	Limit value²⁾
	SO ₂	4.8 ppm	14.8 ppm
	H ₂ S	9.9 ppm	49.7 ppm
	Cl	0.2 ppm	1.0 ppm
	HCl	0.66 ppm	3.3 ppm
	HF	0.12 ppm	2.4 ppm
	NH ₃	49 ppm	247 ppm
	O ₃	0.1 ppm	1.0 ppm
	NO _x	5.2 ppm	10.4 ppm
		With RH < 75 %, condensation permitted	
Salt mist	EN 60068-2-52, salt mist test, severity level 3		
Mechanically active substances	EN 60721-3-3 3S4		
■ Dust (suspended content)	4.0 mg / m ³		
■ Dust (precipitate)	40 mg / (m ² h), incl. sand/dust ("Arizona dust")		
Biologically active substances	EN 60721-3-3 3B2, mold growth, sponge (except fauna)		

¹⁾ For certain product ranges

²⁾ 30 min/day

Successfully tested for application in demanding sectors



Convince yourself of the numerous advantages and obtain further information via: siemens.com/siplus-extreme

Siemens AG
 Industry Sector
 Industry Automation
 Control Components
 and Systems Engineering
 P.O. Box 23 55
 90713 FUERTH
 GERMANY

Subject to change without prior notice
 11/13
 Order No.: E80001-A226-P320-X-7600
 Dispo 46371
 SCHÖ/47882 SB11132.
 Printed in Germany
 © Siemens AG 2013

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. All product designations may be trademarks and product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.