

Create a list of all mathematical function blocks in the OSCAT library for PLC programming.



The OSCAT (Open Source Community for Automation Technology) library is a collection of function blocks and libraries for PLC programming, designed to improve efficiency and make it easier for developers to implement their automation tasks. However, as an Al language model, I don't have a complete, upto-date list of all mathematical function blocks in the OSCAT library.

You can visit the official OSCAT website (http://www.oscat.de/) to download the latest version of the library and review the documentation for a comprehensive list of available function blocks.

Here are some common mathematical function blocks that are likely to be present in the OSCAT library:

- 1. ADD Addition
- 2. SUB Subtraction
- 3. MUL Multiplication
- 4. DIV Division
- 5. MOD Modulo
- 6. ABS Absolute value
- 7. SQRT Square root
- 8. POW Power
- 9. EXP Exponential
- 10. LN Natural logarithm
- 11. LOG Logarithm (base 10)
- 12. SIN Sine
- 13. COS Cosine
- 14. TAN Tangent
- 15. ASIN Arcsine
- 16. ACOS Arccosine
- 17. ATAN Arctangent
- 18. SINH Hyperbolic sine
- 19. COSH Hyperbolic cosine
- 20. TANH Hyperbolic tangent
- 21. MIN Minimum of input values
- 22. MAX Maximum of input values
- 23. ROUND Round to the nearest integer

24. FLOOR - Round down to the nearest integer

- 25. CEIL Round up to the nearest integer
- 26. TRUNC Truncate (remove the fractional part)
- 27. SCALE Scale an input value from one range to another

Please note that this list is not exhaustive and may not fully represent the OSCAT library's current capabilities. Refer to the OSCAT library documentation for the most accurate and up-to-date information.





