

WORD

Description

An operand of data type WORD is a bit string of 16 bits.

The following table shows the properties of data type WORD:

Length (bits)	Format	Value range	Examples of value input	
			Constants	Absolute and symbolic addresses
16	Integers (decimal system)	Signed integers: -32_768 to +32_767 Unsigned integers: 0 to 65_535	<ul style="list-style-type: none"> • 61_680 • WORD#61_680 • WORD#10#61_680 • W#61_680 	<ul style="list-style-type: none"> • MW10 • DB1.DBW2 • Tag_Name
	Binary numbers	2#0 to 2#1111_1111_1111_1111	<ul style="list-style-type: none"> • 2#1111_0000_1111_0000 • WORD#2#1111_0000_1111_0000 • W#2#1111_0000_1111_0000 	
	Octal numbers	8#0 to 8#177_777	<ul style="list-style-type: none"> • 8#170_360 • WORD#8#170_360 • W#8#170_360 	
	Hexadecimal numbers	16#0 to 16#FFFF	<ul style="list-style-type: none"> • 16#F0F0 • WORD#16#F0F0 • W#16#F0F0 	
	BCD	C#0 to C#999	C#55	
	Decimal sequence	B#(0, 0) to B#(255, 255)	B#(127, 200)	

Note

The WORD data type cannot be compared for more than or less than. It can only be supplied with the same decimal data that can be processed by the INT and UINT data types.

The "BCD" format is not possible in SCL.

The "Decimal sequence" is not possible in SCL and GRAPH.

See also

[Overview of the valid data types](#)

[Basics of constants](#)

[Data type conversion for S7-1200 \(S7-1200\)](#)