

BYTE

Description

An operand of data type BYTE is a bit string of 8 bits.

The following table shows the properties of data type BYTE:

Length (bits)	Format	Value range	Examples of value input	
			Constants	Absolute and symbolic addresses
8	Integers ¹⁾ (decimal system)	Signed integers: -128 to +127 Unsigned integers: 0 to 255	<ul style="list-style-type: none"> • 15 • BYTE#15 • BYTE#10#15 • B#15 	<ul style="list-style-type: none"> • IB2 • MB10 • DB1.DBB4 • Tag_Name
	Binary numbers	2#0 to 2#1111_1111	<ul style="list-style-type: none"> • 2#0000_1111 • BYTE#2#0000_1111 • B#2#0000_1111 	
	Octal numbers	8#0 to 8#377	<ul style="list-style-type: none"> • 8#17 • BYTE#8#17 • B#8#17 	
	Hexadecimal numbers	16#0 to 16#FF	<ul style="list-style-type: none"> • 16#0F • BYTE#16#0F • B#16#0F 	
1) The value range depends on the relevant interpretation or conversion.				

Note

The BYTE 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 SINT and USINT data types.

See also

[Overview of the valid data types](#)

[Basics of constants](#)

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