

Description

An operand of data type DTL has a length of 12 bytes and stores date and time information in a predefined structure.

The following table shows the properties of data type DTL:

Length (bytes)	Format	Value range	Example of value input
12	Date and time (Year-Month-Day- Hour:Minute:Sec- ond.Nanoseconds)	Min.: DTL#1970-01-01-00:00:00.0 Max.: DTL#2262-04-11-23:47:16.8 54775807	DTL#2008-12-16-20:30 :20.250

The structure of data type DTL consists of several components each of which can contain a different data type and range of values. The data type of a specified value must match the data type of the corresponding components.

Note

Invalid monitor value of DTL tags in hexadecimal format

If the monitor value of the DTL tags is represented in hexadecimal format, this can be because one of the values (YEAR, MONTH, DAY, etc.) is invalid. For example, this is the case if a value > 24 was specified at the HOUR tag.

The following table shows the structure components of data type DTL and their properties:

Byte	Component	Data type	Value range	
0			1070 1- 0000	
1	rear	UINT	1970 10 2262	
2	Month	USINT	1 to 12	
3	Day	USINT	1 to 31	
4	Weekday	USINT	1(Sunday) to 7(Saturday)	
			The weekday is not considered in the value entry.	
5	Hour	USINT	0 to 23	
6	Minute	USINT	0 to 59	
7	Second	USINT	0 to 59	
8				
9	Nepeeeed	UDINT	0 to 999999999	
10	Ivanosecond			
11				

See also

Overview of the valid data types Basics of constants Data type conversion for S7-1200 (S7-1200)