Numeric Data Types

Keyword	Data type	Size [Bits]	Value range
SINT	8 bit integer (with sign bit)	8	-128..127
INT	Integer (with sign bit)	16	-32768..32767
DINT	Double integer (with sign bit)	32	-2.147.483.648..2.147.483.647
LINT	64 bit integer (with sign bit)	64	-9.223.372.036.854.775.808.. 9.223.372.036.854.775.807
USINT	8 bit Integer (w/o sign bit)	8	0..255
UINT	Integer (w/o sign bit)	16	0..65.535
UDINT	Double integer (w/o sign bit)	32	0..4.294.967.295
ULINT	64 bit integer (w/o sign bit)	64	0..18.446.744.073.709.551.615
REAL	32-bit floating-point value	32	+/- 1.5*10^-45 .. +/- 3.4*10^38
LREAL	64-bit floating-point value	64	

Bit-Based Data Types

Keyword	Data type	Size [Bits]	Value range
BOOL	Bool	1	$0..1_{HEX}$ (also false / true)
BYTE	Bit string 8	8	$0..FF_{HEX}$
WORD	Bit string 16	16	$0..FFFF_{HEX}$
DWORD	Bit string 32	32	$0..FFFF\ FFFF_{HEX}$
LWORD	Bit string 64	64	$0..FFFF\ FFFF\ FFFF\ FFFF_{HEX}$

Extended Data Types

Keyword	Data type	Size [Bits]	Value range
TIME	Duration	32	0..4.294.967.295ms (cf. UDINT)
DATE	Date		
TOD	Time of day		
DT	Date and time		
STRING	String (standard)	80[bytes]	