

# PlcDateTime Class

**Namespace:** IPS7Lnk.Advanced

**Assemblies:** IPS7LnkNet.Advanced.dll

Represents a [DateTime](#) value (in PLC a DATE\_AND\_TIME) its value defines an instant in time, typically expressed as a date and time of day.

## C#

```
public class PlcDateTime : PlcValue<DateTime>, IPlcValue<DateTime>, IPlcValue, IPlcSymbol,
IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable,
ISupportInitialize
```

**Inheritance** [Object](#) > [PlcValue<DateTime>](#) > [PlcDateTime](#)

**Implements** [IPlcValue<DateTime>](#), [IPlcValue](#), [IPlcSymbol](#), [IPlcEntity](#), [IPlcStatusProvider](#), [IPlcRelocatable<IPlcValue>](#), [IPlcRelocatable](#), [ISupportInitialize](#)

## Remarks

While a PLC value of this type represents a [DateTime](#) value, all PLC operations performed using this class are done using the [Byte](#). A PLC developer knows a value of this type as DATE\_AND\_TIME.

## Constructors

Name	Description
<a href="#">PlcDateTime(PlcDateTimeType)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">type</a>
<a href="#">PlcDateTime(PlcDateTimeType, DateTime)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">type</a> and <a href="#">value</a> .
<a href="#">PlcDateTime(PlcDateTimeType, PlcName)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">type</a> and <a href="#">name</a> .
<a href="#">PlcDateTime(PlcDateTimeType, PlcName, DateTime)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">type</a> , <a href="#">name</a> and <a href="#">value</a> .
<a href="#">PlcDateTime(PlcIdentity)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">identity</a>
<a href="#">PlcDateTime(PlcIdentity, DateTime)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">identity</a> and <a href="#">value</a> .
<a href="#">PlcDateTime(PlcIdentity, PlcName)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">identity</a> and <a href="#">name</a> .
<a href="#">PlcDateTime(PlcIdentity, PlcName, DateTime)</a>	Initializes a new instance of the <a href="#">PlcDateTime</a> class using the specified <a href="#">identity</a> , <a href="#">name</a> and <a href="#">value</a> .

## Fields

Name	Description
<a href="#">MaxValue</a>	Represents the largest possible value of a <a href="#">PlcDateTime</a> .

Name	Description
MinValue	Represents the smallest possible value of a <a href="#">PlcDateTime</a> .

## Properties

Name	Description
Value	Gets or sets the value assigned to the PLC value.

## Methods

Name	Description
<a href="#">GetBytes(DateTime)</a>	Returns the specified <a href="#">DateTime</a> value as an array of BCD <a href="#">Byte</a> values.
<a href="#">GetDateTime(Byte)</a>	Returns the specified BCD values ( <a href="#">bcdValues</a> ) as a <a href="#">DateTime</a> .
<a href="#">GetValueCore(PlcDeviceConnection)</a>	Retrieves the current value of the PLC value from a <a href="#">IPlcDevice</a> using the <a href="#">connection</a> specified.
<a href="#">IsValidValue(Object)</a>	Determines whether the provided value is accepted for the type of PLC value through basic type checking and also potentially if it is within the allowed range of value for that type.
<a href="#">RelocateCore(PlcAddress)</a>	Relocates the value to the <a href="#">address</a> specified.
<a href="#">SetValueCore(PlcDeviceConnection, DateTime)</a>	Stores the <a href="#">value</a> in the <a href="#">IPlcDevice</a> assigned to the <a href="#">connection</a> specified.

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