

# PlcDate Class

**Namespace:** IPS7Lnk.Advanced

**Assemblies:** IPS7LnkNet.Advanced.dll

Represents a [DateTime](#) value (in PLC a DATE) its value defines an instant in time, where only the date of day is expressed.

**C#**

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

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

**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 [Word](#). A PLC developer knows a value of this type as DATE.

## Constructors

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

| Name     | Description                                          |
|----------|------------------------------------------------------|
| MinValue | Represents the smallest possible value of a PlcDate. |

## Properties

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

## Methods

| Name                                        | Description                                                                                                                                                                            |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GetValueCore(PlcDeviceConnection)           | Retrieves the current value of the PLC value from a IPlcDevice using the connection specified.                                                                                         |
| IsValidValue(Object)                        | 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. |
| RelocateCore(PlcAddress)                    | Relocates the value to the address specified.                                                                                                                                          |
| SetValueCore(PlcDeviceConnection, DateTime) | Stores the value in the IPlcDevice assigned to the connection specified.                                                                                                               |

# Table of Contents

|                           |   |
|---------------------------|---|
| Remarks .....             | 1 |
| <b>Constructors</b> ..... | 1 |
| <b>Fields</b> .....       | 1 |
| <b>Properties</b> .....   | 2 |
| <b>Methods</b> .....      | 2 |

