

# PlcDouble Members

**Namespace:** IPS7Lnk.Advanced

**Assemblies:** IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll

The [PlcDouble](#) type exposes the following members.

## Constructors

### PlcDouble(PlcDoubleType)

Initializes a new instance of the [PlcDouble](#) class using the specified [type](#)

**C#**

```
public PlcDouble(PlcDoubleType type)
```

#### Parameters

[type](#) [PlcDoubleType](#)

The [PlcDoubleType](#) of the new [PlcDouble](#) to which the PLC value belongs.

#### Exceptions

[ArgumentNullException](#)

The [type](#) is a null reference (Nothing in Visual Basic).

### PlcDouble(PlcDoubleType, Double)

Initializes a new instance of the [PlcDouble](#) class using the specified [type](#) and [value](#).

**C#**

```
public PlcDouble(PlcDoubleType type, double value)
```

#### Parameters

[type](#) [PlcDoubleType](#)

The [PlcDoubleType](#) of the new [PlcDouble](#) to which the PLC value belongs.

[value](#) [Double](#)

The initial value of the new [PlcDouble](#).

#### Exceptions

[ArgumentNullException](#)

The `type` is a null reference (Nothing in Visual Basic).

## PlcDouble(PlcDoubleType, PlcName)

Initializes a new instance of the `PlcDouble` class using the specified `type` and `name`.

### C#

```
public PlcDouble(PlcDoubleType type, PlcName name)
```

### Parameters

`type` `PlcDoubleType`

The `PlcDoubleType` of the new `PlcDouble` to which the PLC value belongs.

`name` `PlcName`

The name of the value.

### Exceptions

`ArgumentNullException`

The `type` or `name` is a null reference (Nothing in Visual Basic).

## PlcDouble(PlcDoubleType, PlcName, Double)

Initializes a new instance of the `PlcDouble` class using the specified `type`, `name` and `value`.

### C#

```
public PlcDouble(PlcDoubleType type, PlcName name, double value)
```

### Parameters

`type` `PlcDoubleType`

The `PlcDoubleType` of the new `PlcDouble` to which the PLC value belongs.

`name` `PlcName`

The name of the value.

`value` `Double`

The initial value of the new `PlcDouble`.

### Exceptions

`ArgumentNullException`

The `type` or `name` is a null reference (Nothing in Visual Basic).

## PlcDouble(PlcIdentity)

Initializes a new instance of the [PlcDouble](#) class using the specified [identity](#)

**C#**

```
public PlcDouble(PlcIdentity identity)
```

### Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcDouble](#) to which the PLC value belongs.

### Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [DWord](#).

[ArgumentNullException](#)

The [identity](#) is a null reference (Nothing in Visual Basic).

## PlcDouble(PlcIdentity, Double)

Initializes a new instance of the [PlcDouble](#) class using the specified [identity](#) and [value](#).

**C#**

```
public PlcDouble(PlcIdentity identity, double value)
```

### Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcDouble](#) to which the PLC value belongs.

[value](#) [Double](#)

The initial value of the new [PlcDouble](#).

### Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [DWord](#).

[ArgumentNullException](#)

The [identity](#) is a null reference (Nothing in Visual Basic).

## PlcDouble(PlcIdentity, PlcName)

Initializes a new instance of the [PlcDouble](#) class using the specified [identity](#) and [name](#).

### C#

```
public PlcDouble(PlcIdentity identity, PlcName name)
```

### Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcDouble](#) to which the PLC value belongs.

[name](#) [PlcName](#)

The name of the value.

### Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [DWord](#).

[ArgumentNullException](#)

The [identity](#) or [name](#) is a null reference (Nothing in Visual Basic).

## PlcDouble(PlcIdentity, PlcName, Double)

Initializes a new instance of the [PlcDouble](#) class using the specified [identity](#), [name](#) and [value](#).

### C#

```
public PlcDouble(PlcIdentity identity, PlcName name, double value)
```

### Parameters

[identity](#) [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcDouble](#) to which the PLC value belongs.

[name](#) [PlcName](#)

The name of the value.

[value](#) [Double](#)

The initial value of the new [PlcDouble](#).

### Exceptions

[ArgumentException](#)

The [identity](#) does not refer to the [DWord](#).

## ArgumentNullException

The **identity** or **name** is a null reference (Nothing in Visual Basic).

# Methods

## GetValueCore(PlcDeviceConnection)

Retrieves the current value of the PLC value from a **IPlcDevice** using the **connection** specified.

### C#

```
protected override double GetValueCore(PlcDeviceConnection connection)
```

### Parameters

**connection** **PlcDeviceConnection**

The **PlcDeviceConnection** from that the data is to be retrieved.

### Returns

**Double**

The current value of the PLC value.

### Exceptions

**InvalidOperationException**

The **connection** is in **Faulted** state and cannot longer be opened.

**ObjectDisposedException**

The **connection** has been disposed of.

## RelocateCore(PlcAddress)

Relocates the value to the **address** specified.

### C#

```
protected override IPlcValue RelocateCore(PlcAddress address)
```

### Parameters

**address** **PlcAddress**

The **PlcAddress** to that the value is to be relocated.

## Returns

### IPlcValue

A new instance of the same type as this PLC value instance relocated to the **address** specified.

# SetValueCore(PlcDeviceConnection, Double)

Stores the **value** in the **IPlcDevice** assigned to the **connection** specified.

## C#

```
protected override void SetValueCore(PlcDeviceConnection connection, double value)
```

## Parameters

**connection** **PlcDeviceConnection**

The **PlcDeviceConnection** to use to store the **value**.

**value** **Double**

The value to be stored.

## Exceptions

**InvalidOperationException**

The **connection** is in **Faulted** state and cannot longer be opened.

**ObjectDisposedException**

The **connection** has been disposed of.

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