

PlcReal Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcReal(PlcIdentity)

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

C#

```
public PlcReal(PlcIdentity identity)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcReal](#) 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).

PlcReal(PlcIdentity, PlcName)

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

C#

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

Parameters

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

The [PlcIdentity](#) of the new [PlcReal](#) 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).

PlcReal(PlcIdentity, PlcName, Single)

Initializes a new instance of the `PlcReal` class using the specified `identity`, `name` and `value`.

C#

```
public PlcReal(PlcIdentity identity, PlcName name, float value)
```

Parameters

`identity` `PlcIdentity`

The `PlcIdentity` of the new `PlcReal` to which the PLC value belongs.

`name` `PlcName`

The name of the value.

`value` `Single`

The initial value of the new `PlcReal`.

Exceptions

ArgumentException

The `identity` does not refer to the `DWord`.

ArgumentNullException

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

PlcReal(PlcIdentity, Single)

Initializes a new instance of the `PlcReal` class using the specified `identity` and `value`.

C#

```
public PlcReal(PlcIdentity identity, float value)
```

Parameters

`identity` `PlcIdentity`

The `PlcIdentity` of the new `PlcReal` to which the PLC value belongs.

value Single

The initial value of the new PlcReal.

Exceptions

ArgumentException

The identity does not refer to the DWord.

ArgumentNullException

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

PlcReal(PlcRealType)

Initializes a new instance of the PlcReal class using the specified type

C#

```
public PlcReal(PlcRealType type)
```

Parameters

type PlcRealType

The PlcRealType of the new PlcReal to which the PLC value belongs.

Exceptions

ArgumentNullException

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

PlcReal(PlcRealType, PlcName)

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

C#

```
public PlcReal(PlcRealType type, PlcName name)
```

Parameters

type PlcRealType

The PlcRealType of the new PlcReal 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).

PlcReal(PlcRealType, PlcName, Single)

Initializes a new instance of the [PlcReal](#) class using the specified **type**, **name** and **value**.

C#

```
public PlcReal(PlcRealType type, PlcName name, float value)
```

Parameters

type [PlcRealType](#)

The [PlcRealType](#) of the new [PlcReal](#) to which the PLC value belongs.

name [PlcName](#)

The name of the value.

value [Single](#)

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

Exceptions

[ArgumentNullException](#)

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

PlcReal(PlcRealType, Single)

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

C#

```
public PlcReal(PlcRealType type, float value)
```

Parameters

type [PlcRealType](#)

The [PlcRealType](#) of the new [PlcReal](#) to which the PLC value belongs.

value [Single](#)

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

Exceptions

[ArgumentNullException](#)

The `type` 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 float GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` `PlcDeviceConnection`

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

Returns

`Single`

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, Single)

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

C#

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

Parameters

connection **PlcDeviceConnection**

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

value **Single**

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.

Table of Contents

Constructors	1
PlcReal(PlcIdentity)	1
PlcReal(PlcIdentity, PlcName)	1
PlcReal(PlcIdentity, PlcName, Single)	2
PlcReal(PlcIdentity, Single)	2
PlcReal(PlcRealType)	3
PlcReal(PlcRealType, PlcName)	3
PlcReal(PlcRealType, PlcName, Single)	4
PlcReal(PlcRealType, Single)	4
Methods	5
GetValueCore(PlcDeviceConnection)	5
RelocateCore(PlcAddress)	5
SetValueCore(PlcDeviceConnection, Single)	6

