

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 [LWord](#).

[ArgumentNullException](#)

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

PlcReal(PlcIdentity, Double)

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

C#

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

Parameters

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

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

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

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

Exceptions

ArgumentException

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

ArgumentNullException

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

PlcLReal(PlcIdentity, PlcName)

Initializes a new instance of the `PlcLReal` class using the specified `identity` and `name`.

C#

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

Parameters

identity PlcIdentity

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

name PlcName

The name of the value.

Exceptions

ArgumentException

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

ArgumentNullException

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

PlcLReal(PlcIdentity, PlcName, Double)

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

C#

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

Parameters

identity PlcIdentity

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

name PlcName

The name of the value.

value Double

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

Exceptions

ArgumentException

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

ArgumentNullException

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

PlcLReal(PlcLRealType)

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

C#

```
public PlcLReal(PlcLRealType type)
```

Parameters

type PlcLRealType

The [PlcLRealType](#) of the new [PlcLReal](#) to which the PLC value belongs.

Exceptions

ArgumentNullException

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

PlcLReal(PlcLRealType, Double)

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

C#

```
public PlcLReal(PlcLRealType type, double value)
```

Parameters

type PlcLRealType

The [PlcLRealType](#) of the new [PlcLReal](#) to which the PLC value belongs.

value Double

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

Exceptions

ArgumentNullException

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

PlcLReal(PlcLRealType, PlcName)

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

C#

```
public PlcLReal(PlcLRealType type, PlcName name)
```

Parameters

type PlcLRealType

The `PlcLRealType` of the new `PlcLReal` 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).

PlcLReal(PlcLRealType, PlcName, Double)

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

C#

```
public PlcLReal(PlcLRealType type, PlcName name, double value)
```

Parameters

type PlcLRealType

The `PlcLRealType` of the new `PlcLReal` to which the PLC value belongs.

name PlcName

The name of the value.

value Double

The initial value of the new `PlcLReal`.

Exceptions

ArgumentNullException

The **type** 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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