

PlcLRealArray Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcLRealArray(PlcIdentity, Double[])

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

C#

```
public PlcLRealArray(PlcIdentity identity, params double[] values)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcLRealArray](#) to which the PLC array belongs.

[values](#) [Double\[\]](#)

The initial values of the new [PlcLRealArray](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcLRealArray(PlcIdentity, Int32)

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

C#

```
public PlcLRealArray(PlcIdentity identity, int length)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcLRealArray](#) to which the PLC array belongs.

[length](#) [Int32](#)

The array length used to store the array values of the [PlcLRealArray](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

[ArgumentOutOfRangeException](#)

The [length](#) is out of the bounds defined by [MinLength](#) and [MaxLength](#).

PlcLRealArray(PlcIdentity, PlcName, Double[])

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

C#

```
public PlcLRealArray(PlcIdentity identity, PlcName name, params double[] values)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcLRealArray](#) to which the PLC array belongs.

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

The name of the array represented.

[values](#) [Double\[\]](#)

The initial values of the new [PlcLRealArray](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcLRealArray(PlcIdentity, PlcName, Int32)

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

C#

```
public PlcLRealArray(PlcIdentity identity, PlcName name, int length)
```

Parameters

identity PlcIdentity

The PlcIdentity of the new PlcLRealArray to which the PLC array belongs.

name PlcName

The name of the array represented.

length Int32

The array length used to store the array values of the PlcLRealArray.

Exceptions

ArgumentException

The identity does not refer to the LWord.

ArgumentNullException

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

ArgumentOutOfRangeException

The length is out of the bounds defined by MinLength and MaxLength.

PlcLRealArray(PlcLRealArrayType)

Initializes a new instance of the PlcLRealArray class using the specified type.

C#

```
public PlcLRealArray(PlcLRealArrayType type)
```

Parameters

type PlcLRealArrayType

The PlcLRealArrayType of the new PlcLRealArray to which the PLC array belongs.

Exceptions

ArgumentNullException

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

PlcLRealArray(PlcLRealArrayType, Double[])

Initializes a new instance of the PlcLRealArray class using the specified type and values.

C#

```
public PlcLRealArray(PlcLRealArrayType type, params double[] values)
```

Parameters

type PlcLRealArrayType

The PlcLRealArrayType of the new PlcLRealArray to which the PLC array belongs.

values Double[]

The initial values of the new PlcLRealArray.

Exceptions

ArgumentNullException

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

PlcLRealArray(PlcLRealArrayType, PlcName, Double[])

Initializes a new instance of the PlcLRealArray class using the specified **type**, **name** and **values**.

C#

```
public PlcLRealArray(PlcLRealArrayType type, PlcName name, params double[] values)
```

Parameters

type PlcLRealArrayType

The PlcLRealArrayType of the new PlcLRealArray to which the PLC array belongs.

name PlcName

The name of the array represented.

values Double[]

The initial values of the new PlcLRealArray.

Exceptions

ArgumentNullException

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

Methods

GetElementCore(Int32)

Retrieves the PlcLReal at the specified index.

C#

```
protected override PlcLReal GetElementCore(int index)
```

Parameters

`index Int32`

The zero-based index of the element to get.

Returns

`PlcLReal`

The `PlcLReal` at the specified index.

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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