

PlcRealArray Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcRealArray(PlcIdentity, Int32)

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

C#

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

Parameters

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

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

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

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

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

[ArgumentOutOfRangeException](#)

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

PlcRealArray(PlcIdentity, PlcName, Int32)

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

C#

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

Parameters

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

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

Exceptions

[ArgumentException](#)

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

[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](#).

PlcRealArray(PlcIdentity, PlcName, Single[])

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

C#

```
public PlcRealArray(PlcIdentity identity, PlcName name, params float[] values)
```

Parameters

identity [PlcIdentity](#)

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

name [PlcName](#)

The name of the array represented.

values [Single\[\]](#)

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

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcRealArray(PlcIdentity, Single[])

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

C#

```
public PlcRealArray(PlcIdentity identity, params float[] values)
```

Parameters

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

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

[values](#) [Single\[\]](#)

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

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcRealArray(PlcRealArrayType)

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

C#

```
public PlcRealArray(PlcRealArrayType type)
```

Parameters

[type](#) [PlcRealArrayType](#)

The [PlcRealArrayType](#) of the new [PlcRealArray](#) to which the PLC array belongs.

Exceptions

[ArgumentNullException](#)

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

PlcRealArray(PlcRealArrayType, PlcName, Single[])

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

C#

```
public PlcRealArray(PlcRealArrayType type, PlcName name, params float[] values)
```

Parameters

type [PlcRealArrayType](#)

The [PlcRealArrayType](#) of the new [PlcRealArray](#) to which the PLC array belongs.

name [PlcName](#)

The name of the array represented.

values [Single\[\]](#)

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

Exceptions

[ArgumentNullException](#)

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

PlcRealArray(PlcRealArrayType, Single[])

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

C#

```
public PlcRealArray(PlcRealArrayType type, params float[] values)
```

Parameters

type [PlcRealArrayType](#)

The [PlcRealArrayType](#) of the new [PlcRealArray](#) to which the PLC array belongs.

values [Single\[\]](#)

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

Exceptions

[ArgumentNullException](#)

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

Methods

GetElementCore(Int32)

Retrieves the [PlcReal](#) at the specified index.

C#

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

Parameters

index [Int32](#)

The zero-based index of the element to get.

Returns

[PlcReal](#)

The [PlcReal](#) at the specified index.

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.

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