

PlcInt16Array Members

Namespace: IPS7Lnk.Advanced

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

The [PlcInt16Array](#) type exposes the following members.

Constructors

PlcInt16Array(PlcIdentity, Int16[])

Initializes a new instance of the [PlcInt16Array](#) class using the specified [identity](#) and [values](#).

C#

```
public PlcInt16Array(PlcIdentity identity, params short[] values)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcInt16Array](#) to which the PLC array belongs.

[values](#) [Int16\[\]](#)

The initial values of the new [PlcInt16Array](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcInt16Array(PlcIdentity, Int32)

Initializes a new instance of the [PlcInt16Array](#) class using the specified [identity](#) and [length](#).

C#

```
public PlcInt16Array(PlcIdentity identity, int length)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcInt16Array](#) to which the PLC array belongs.

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

The array length used to store the array values of the [PlcInt16Array](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

[ArgumentOutOfRangeException](#)

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

PlcInt16Array(PlcIdentity, PlcName, Int16[])

Initializes a new instance of the [PlcInt16Array](#) class using the specified [identity](#), [name](#) and [values](#).

C#

```
public PlcInt16Array(PlcIdentity identity, PlcName name, params short[] values)
```

Parameters

[identity](#) PlcIdentity

The [PlcIdentity](#) of the new [PlcInt16Array](#) to which the PLC array belongs.

[name](#) PlcName

The name of the array represented.

[values](#) Int16[]

The initial values of the new [PlcInt16Array](#).

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcInt16Array(PlcIdentity, PlcName, Int32)

Initializes a new instance of the [PlcInt16Array](#) class using the specified [identity](#), [name](#) and [length](#).

C#

```
public PlcInt16Array(PlcIdentity identity, PlcName name, int length)
```

Parameters

identity [PlcIdentity](#)

The [PlcIdentity](#) of the new [PlcInt16Array](#) 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 [PlcInt16Array](#).

Exceptions

[ArgumentException](#)

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

[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](#).

PlcInt16Array(PlcInt16ArrayType)

Initializes a new instance of the [PlcInt16Array](#) class using the specified [type](#).

C#

```
public PlcInt16Array(PlcInt16ArrayType type)
```

Parameters

type [PlcInt16ArrayType](#)

The [PlcInt16ArrayType](#) of the new [PlcInt16Array](#) to which the PLC array belongs.

Exceptions

[ArgumentNullException](#)

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

PlcInt16Array(PlcInt16ArrayType, Int16[])

Initializes a new instance of the [PlcInt16Array](#) class using the specified [type](#) and [values](#).

C#

```
public PlcInt16Array(PlcInt16ArrayType type, params short[] values)
```

Parameters

type [PlcInt16ArrayType](#)

The [PlcInt16ArrayType](#) of the new [PlcInt16Array](#) to which the PLC array belongs.

values [Int16\[\]](#)

The initial values of the new [PlcInt16Array](#).

Exceptions

[ArgumentNullException](#)

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

PlcInt16Array(PlcInt16ArrayType, PlcName, Int16[])

Initializes a new instance of the [PlcInt16Array](#) class using the specified **type**, **name** and **values**.

C#

```
public PlcInt16Array(PlcInt16ArrayType type, PlcName name, params short[] values)
```

Parameters

type [PlcInt16ArrayType](#)

The [PlcInt16ArrayType](#) of the new [PlcInt16Array](#) to which the PLC array belongs.

name [PlcName](#)

The name of the array represented.

values [Int16\[\]](#)

The initial values of the new [PlcInt16Array](#).

Exceptions

[ArgumentNullException](#)

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

Methods

GetElementCore(Int32)

Retrieves the [PlcInt16](#) at the specified index.

C#

```
protected override PlcInt16 GetElementCore(int index)
```

Parameters

`index` [Int32](#)

The zero-based index of the element to get.

Returns

[PlcInt16](#)

The [PlcInt16](#) at the specified index.

GetValueCore(PlcDeviceConnection)

Retrieves the current value of the PLC value from a [IPlcDevice](#) using the `connection` specified.

C#

```
protected override short[] GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` [PlcDeviceConnection](#)

The [PlcDeviceConnection](#) from that the data is to be retrieved.

Returns

[Int16\[\]](#)

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, Int16[])

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

C#

```
protected override void SetValueCore(PlcDeviceConnection connection, short[] value)
```

Parameters

`connection` `PlcDeviceConnection`

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

`value` `Int16[]`

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
PlcInt16Array(PlcIdentity, Int16[])	1
PlcInt16Array(PlcIdentity, Int32)	1
PlcInt16Array(PlcIdentity, PlcName, Int16[])	2
PlcInt16Array(PlcIdentity, PlcName, Int32)	2
PlcInt16Array(PlcInt16ArrayType)	3
PlcInt16Array(PlcInt16ArrayType, Int16[])	3
PlcInt16Array(PlcInt16ArrayType, PlcName, Int16[])	4
Methods	4
GetElementCore(Int32)	4
GetValueCore(PlcDeviceConnection)	5
RelocateCore(PlcAddress)	5
SetValueCore(PlcDeviceConnection, Int16[])	6

