

PlcInt16 Members

Namespace: IPS7Lnk.Advanced

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

The [PlcInt16](#) type exposes the following members.

Constructors

PlcInt16(PlcIdentity)

Initializes a new instance of the [PlcInt16](#) class using the specified [identity](#)

C#

```
public PlcInt16(PlcIdentity identity)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcInt16](#) to which the PLC value belongs.

Exceptions

[ArgumentException](#)

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

[ArgumentNullException](#)

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

PlcInt16(PlcIdentity, Int16)

Initializes a new instance of the [PlcInt16](#) class using the specified [identity](#) and [value](#).

C#

```
public PlcInt16(PlcIdentity identity, short value)
```

Parameters

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

The [PlcIdentity](#) of the new [PlcInt16](#) to which the PLC value belongs.

[value](#) [Int16](#)

The initial value of the new [PlcInt16](#).

Exceptions

ArgumentException

The **identity** does not refer to the **Word**.

ArgumentNullException

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

PlcInt16(PlcIdentity, PlcName)

Initializes a new instance of the **PlcInt16** class using the specified **identity** and **name**.

C#

```
public PlcInt16(PlcIdentity identity, PlcName name)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcInt16** to which the PLC value belongs.

name **PlcName**

The name of the value.

Exceptions

ArgumentException

The **identity** does not refer to the **Word**.

ArgumentNullException

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

PlcInt16(PlcIdentity, PlcName, Int16)

Initializes a new instance of the **PlcInt16** class using the specified **identity**, **name** and **value**.

C#

```
public PlcInt16(PlcIdentity identity, PlcName name, short value)
```

Parameters

identity **PlcIdentity**

The **PlcIdentity** of the new **PlcInt16** to which the PLC value belongs.

name **PlcName**

The name of the value.

value `Int16`

The initial value of the new `PlcInt16`.

Exceptions

`ArgumentException`

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

`ArgumentNullException`

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

PlcInt16(PlcInt16Type)

Initializes a new instance of the `PlcInt16` class using the specified `type`

C#

```
public PlcInt16(PlcInt16Type type)
```

Parameters

`type` `PlcInt16Type`

The `PlcInt16Type` of the new `PlcInt16` to which the PLC value belongs.

Exceptions

`ArgumentNullException`

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

PlcInt16(PlcInt16Type, Int16)

Initializes a new instance of the `PlcInt16` class using the specified `type` and `value`.

C#

```
public PlcInt16(PlcInt16Type type, short value)
```

Parameters

`type` `PlcInt16Type`

The `PlcInt16Type` of the new `PlcInt16` to which the PLC value belongs.

value `Int16`

The initial value of the new `PlcInt16`.

Exceptions

ArgumentNullException

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

PlcInt16(PlcInt16Type, PlcName)

Initializes a new instance of the `PlcInt16` class using the specified `type` and `name`.

C#

```
public PlcInt16(PlcInt16Type type, PlcName name)
```

Parameters

`type` `PlcInt16Type`

The `PlcInt16Type` of the new `PlcInt16` 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).

PlcInt16(PlcInt16Type, PlcName, Int16)

Initializes a new instance of the `PlcInt16` class using the specified `type`, `name` and `value`.

C#

```
public PlcInt16(PlcInt16Type type, PlcName name, short value)
```

Parameters

`type` `PlcInt16Type`

The `PlcInt16Type` of the new `PlcInt16` to which the PLC value belongs.

`name` `PlcName`

The name of the value.

`value` `Int16`

The initial value of the new `PlcInt16`.

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 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.

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