

PlcInt16Array Class

Namespace: IPS7Lnk.Advanced

Assemblies: IPS7LnkNet.Advanced.dll

Represents a PLC array which addresses an unique data entry stored within a programmable logic controller (PLC) its values are 16-bit signed integer values ([Int16](#)).

C#

```
public class PlcInt16Array : PlcArray<short, PlcInt16>, IPlcArray<short, PlcInt16>,
IPlcValue<short[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<short>,
IEnumerable
```

Inheritance [Object](#) > [PlcValue<Int16>](#) > [PlcArray<Int16, PlcInt16>](#) > [PlcInt16Array](#)

Implements [IPlcArray<Int16, PlcInt16>](#), [IPlcValue<Int16>](#), [IPlcArray](#), [IPlcValue](#), [IPlcSymbol](#), [IPlcEntity](#), [IPlcStatusProvider](#), [IPlcRelocatable<IPlcValue>](#), [IPlcRelocatable](#), [ISupportInitialize](#), [IEnumerable<Int16>](#), [IEnumerable](#)

Remarks

While a PLC array of this type represents an array of [Int16](#) values, all PLC operations performed using this class are done using the [Word](#). A PLC developer knows an array of this type as an ARRAY OF INT.

Constructors

Name	Description
PlcInt16Array(PlcIdentity, Int16)	Initializes a new instance of the PlcInt16Array class using the specified identity and values .
PlcInt16Array(PlcIdentity, Int32)	Initializes a new instance of the PlcInt16Array class using the specified identity and length .
PlcInt16Array(PlcIdentity, PlcName, Int16)	Initializes a new instance of the PlcInt16Array class using the specified identity , name and values .
PlcInt16Array(PlcIdentity, PlcName, Int32)	Initializes a new instance of the PlcInt16Array class using the specified identity , name and length .
PlcInt16Array(PlcInt16ArrayType)	Initializes a new instance of the PlcInt16Array class using the specified type .
PlcInt16Array(PlcInt16ArrayType, Int16)	Initializes a new instance of the PlcInt16Array class using the specified type and values .
PlcInt16Array(PlcInt16ArrayType, PlcName, Int16)	Initializes a new instance of the PlcInt16Array class using the specified type , name and values .

Methods

Name	Description
GetElementCore(Int32)	Retrieves the PlcInt16 at the specified index.

Name	Description
GetValueCore(PlcDeviceConnection)	Retrieves the current value of the PLC value from a <code>IPlcDevice</code> using the <code>connection</code> specified.
RelocateCore(PlcAddress)	Relocates the value to the <code>address</code> specified.
SetValueCore(PlcDeviceConnection, Int16)	Stores the <code>value</code> in the <code>IPlcDevice</code> assigned to the <code>connection</code> specified.

Table of Contents

Remarks	1
Constructors	1
Methods	1

