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 IPlcDevice using the `connection` specified.
RelocateCore(PlcAddress)	Relocates the value to the `address` specified.
SetValueCore(PlcDeviceConnection, Int16)	Stores the `value` in the IPlcDevice assigned to the `connection` specified.

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