PlcUInt16Array 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 unsigned integer values (UInt16).

C#

```
[CLSCompliant(false)]
public class PlcUInt16Array : PlcArray<ushort, PlcUInt16>, IPlcArray<ushort, PlcUInt16>,
IPlcValue<ushort[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<ushort>,
IEnumerable
```

Inheritance Object › PlcValue<UInt16> › PlcArray<UInt16, PlcUInt16> › PlcUInt16Array

Attributes CLSCompliantAttribute

Implements IPlcArray<UInt16, PlcUInt16>, IPlcValue<UInt16>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<UInt16>, IEnumerable

Remarks

While a PLC array of this type represents an array of UInt16 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 WORD.

Constructors

Name	Description
PlcUInt16Array(PlcIdentity, Int32)	Initializes a new instance of the PlcUInt16Array class using the specified `identity` and `length`.
PlcUInt16Array(PlcIdentity, PlcName, Int32)	Initializes a new instance of the PlcUInt16Array class using the specified `identity`, `name` and `length`.
PlcUInt16Array(PlcIdentity, PlcName, UInt16)	Initializes a new instance of the PlcUInt16Array class using the specified `identity`, `name` and `values`.
PlcUInt16Array(PlcIdentity, UInt16)	Initializes a new instance of the PlcUInt16Array class using the specified `identity` and `values`.
PlcUInt16Array(PlcUInt16ArrayType)	Initializes a new instance of the PlcUInt16Array class using the specified `type`.
PlcUInt16Array(PlcUInt16ArrayType, PlcName, UInt16)	Initializes a new instance of the PlcUInt16Array class using the specified `type`, `name` and `values`.
PlcUInt16Array(PlcUInt16ArrayType, UInt16)	Initializes a new instance of the PlcUInt16Array class using the specified `type` and `values`.

Methods

Name	Description
GetElementCore(Int32)	Retrieves the PlcUInt16 at the specified index.
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, UInt16)	Stores the `value` in the IPlcDevice assigned to the `connection` specified.

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