

PlcRealArray 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 single-precision floating-point numbers ([Single](#)).

C#

```
public class PlcRealArray : PlcArray<float, PlcReal>, IPlcArray<float, PlcReal>,
    IPlcValue<float[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
    IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<float>,
    IEnumerable
```

Inheritance [Object](#) > [PlcValue<Single>](#) > [PlcArray<Single, PlcReal>](#) > [PlcRealArray](#)

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

Remarks

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

Constructors

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

Methods

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

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

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