

# 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
<a href="#">PlcRealArray(PlcIdentity, Int32)</a>	Initializes a new instance of the <a href="#">PlcRealArray</a> class using the specified <a href="#">identity</a> and <a href="#">length</a> .
<a href="#">PlcRealArray(PlcIdentity, PlcName, Int32)</a>	Initializes a new instance of the <a href="#">PlcRealArray</a> class using the specified <a href="#">identity</a> , <a href="#">name</a> and <a href="#">length</a> .
<a href="#">PlcRealArray(PlcIdentity, PlcName, Single)</a>	Initializes a new instance of the <a href="#">PlcRealArray</a> class using the specified <a href="#">identity</a> , <a href="#">name</a> and <a href="#">values</a> .
<a href="#">PlcRealArray(PlcIdentity, Single)</a>	Initializes a new instance of the <a href="#">PlcRealArray</a> class using the specified <a href="#">identity</a> and <a href="#">values</a> .
<a href="#">PlcRealArray(PlcRealArrayType)</a>	Initializes a new instance of the <a href="#">PlcRealArray</a> class using the specified <a href="#">type</a> .
<a href="#">PlcRealArray(PlcRealArrayType, PlcName, Single)</a>	Initializes a new instance of the <a href="#">PlcRealArray</a> class using the specified <a href="#">type</a> , <a href="#">name</a> and <a href="#">values</a> .
<a href="#">PlcRealArray(PlcRealArrayType, Single)</a>	Initializes a new instance of the <a href="#">PlcRealArray</a> class using the specified <a href="#">type</a> and <a href="#">values</a> .

## Methods

Name	Description
<a href="#">GetElementCore(Int32)</a>	Retrieves the <a href="#">PlcReal</a> 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.

# Table of Contents

Remarks .....	1
<b>Constructors</b> .....	1
<b>Methods</b> .....	1

