

# PlcLRealArray 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 double-precision floating-point numbers ([Double](#)).

**C#**

```
public class PlcLRealArray : PlcArray<double, PlcLReal>, IPlcArray<double, PlcLReal>,
    IPlcValue<double[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
    IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<double>,
    IEnumerable
```

**Inheritance** [Object](#) > [PlcValue<Double>](#) > [PlcArray<Double, PlcLReal>](#) > [PlcLRealArray](#)

**Implements** [IPlcArray<Double, PlcLReal>](#), [IPlcValue<Double>](#), [IPlcArray](#), [IPlcValue](#), [IPlcSymbol](#), [IPlcEntity](#), [IPlcStatusProvider](#), [IPlcRelocatable<IPlcValue>](#), [IPlcRelocatable](#), [ISupportInitialize](#), [IEnumerable<Double>](#), [IEnumerable](#)

## Remarks

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

## Constructors

Name	Description
<a href="#">PlcLRealArray(PlcIdentity, Double)</a>	Initializes a new instance of the <a href="#">PlcLRealArray</a> class using the specified <a href="#">identity</a> and <a href="#">values</a> .
<a href="#">PlcLRealArray(PlcIdentity, Int32)</a>	Initializes a new instance of the <a href="#">PlcLRealArray</a> class using the specified <a href="#">identity</a> and <a href="#">length</a> .
<a href="#">PlcLRealArray(PlcIdentity, PlcName, Double)</a>	Initializes a new instance of the <a href="#">PlcLRealArray</a> class using the specified <a href="#">identity</a> , <a href="#">name</a> and <a href="#">values</a> .
<a href="#">PlcLRealArray(PlcIdentity, PlcName, Int32)</a>	Initializes a new instance of the <a href="#">PlcLRealArray</a> class using the specified <a href="#">identity</a> , <a href="#">name</a> and <a href="#">length</a> .
<a href="#">PlcLRealArray(PlcLRealArrayType)</a>	Initializes a new instance of the <a href="#">PlcLRealArray</a> class using the specified <a href="#">type</a> .
<a href="#">PlcLRealArray(PlcLRealArrayType, Double)</a>	Initializes a new instance of the <a href="#">PlcLRealArray</a> class using the specified <a href="#">type</a> and <a href="#">values</a> .
<a href="#">PlcLRealArray(PlcLRealArrayType, PlcName, Double)</a>	Initializes a new instance of the <a href="#">PlcLRealArray</a> class using the specified <a href="#">type</a> , <a href="#">name</a> and <a href="#">values</a> .

## Methods

Name	Description
<a href="#">GetElementCore(Int32)</a>	Retrieves the <a href="#">PlcLReal</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, Double)</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

