

PlcDoubleArray 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 PlcDoubleArray : PlcArray<double, PlcDouble>, IPlcArray<double, PlcDouble>,
    IPlcValue<double[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
    IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<double>,
    IEnumerable
```

Inheritance [Object](#) > [PlcValue<Double>](#) > [PlcArray<Double, PlcDouble>](#) > [PlcDoubleArray](#)

Implements [IPlcArray<Double, PlcDouble>](#), [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 [DWord](#). A PLC developer knows an array of this type as an ARRAY OF DOUBLE.

Constructors

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

Methods

Name	Description
GetElementCore(Int32)	Retrieves the PlcDouble 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, Double)	Stores the value in the IPlcDevice assigned to the connection specified.

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