

PlcBooleanArray 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 interpreted as boolean expressions ([Boolean](#)).

C#

```
public class PlcBooleanArray : PlcArray<bool, PlcBoolean>, IPlcArray<bool, PlcBoolean>,
IPlcValue<bool[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<bool>,
IEnumerable
```

Inheritance [Object](#) > [PlcValue<Boolean>](#) > [PlcArray<Boolean, PlcBoolean>](#) > [PlcBooleanArray](#)

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

Remarks

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

Constructors

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

Methods

Name	Description
<code>GetElementCore(Int32)</code>	Retrieves the <code>PlcBoolean</code> at the specified index.
<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, Boolean)</code>	Stores the <code>value</code> in the <code>IPlcDevice</code> assigned to the <code>connection</code> specified.

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