# PlcCharArray 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 represent Char values.

**C#**

```
public class PlcCharArray : PlcArray<char, PlcChar>, IPlcArray<char, PlcChar>,
IPlcValue<char[]>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider,
IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<char>,
IEnumerable
```

**Inheritance** Object › PlcValue<Char> › PlcArray<Char, PlcChar> › PlcCharArray

**Implements** IPlcArray<Char, PlcChar>, IPlcValue<Char>, IPlcArray, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<Char>, IEnumerable

## Remarks

A PLC array of this type will be directly used by all PLC operations performed through interpreting the Char's as Byte values using the Byte. A PLC developer knows an array of this type as an ARRAY OF CHAR.

# Constructors

| Name | Description |
|---|---|
| PlcCharArray(PlcCharArrayType) | Initializes a new instance of the PlcCharArray class using the specified `type`. |
| PlcCharArray(PlcCharArrayType, Char) | Initializes a new instance of the PlcCharArray class using the specified `type` and `values`. |
| PlcCharArray(PlcCharArrayType, PlcName, Char) | Initializes a new instance of the PlcCharArray class using the specified `type`, `name` and `values`. |
| PlcCharArray(PlcIdentity, Char) | Initializes a new instance of the PlcCharArray class using the specified `identity` and `values`. |
| PlcCharArray(PlcIdentity, Int32) | Initializes a new instance of the PlcCharArray class using the specified `identity` and `length`. |
| PlcCharArray(PlcIdentity, PlcName, Char) | Initializes a new instance of the PlcCharArray class using the specified `identity`, `name` and `values`. |
| PlcCharArray(PlcIdentity, PlcName, Int32) | Initializes a new instance of the PlcCharArray class using the specified `identity`, `name` and `length`. |

# Methods

| Name | Description |
|---|---|
| GetElementCore(Int32) | Retrieves the PlcChar at the specified index. |

| Name | Description |
| --- | --- |
| 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, Char) | Stores the `value` in the IPlcDevice assigned to the `connection` specified. |

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