PlcString Class

Namespace: IPS7Lnk.Advanced
Assemblies: IPS7LnkNet.Advanced.dll

Represents a String value (in PLC a STRING) its value defines a series of characters.

C#

```
public class PlcString : PlcValue<string>, IPlcValue<string>, IPlcValue, IPlcSymbol,
IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable,
ISupportInitialize, IEnumerable<char>, IEnumerable
```

Inheritance Object › PlcValue<String> › PlcString

Implements IPlcValue<String>, IPlcValue, IPlcSymbol, IPlcEntity, IPlcStatusProvider, IPlcRelocatable<IPlcValue>, IPlcRelocatable, ISupportInitialize, IEnumerable<Char>, IEnumerable

Remarks

While a PLC value of this type represents a String value, all PLC operations performed using this class are done using the Byte. A PLC developer knows a value of this type as STRING.

Constructors

Name	Description
PlcString(PlcIdentity, Int32)	Initializes a new instance of the PlcString class using the specified `identity` and `length`.
PlcString(PlcIdentity, PlcName, Int32)	Initializes a new instance of the PlcString class using the specified `identity`, `name` and `length`.
PlcString(PlcIdentity, PlcName, String)	Initializes a new instance of the PlcString class using the specified `identity`, `name` and `value`.
PlcString(PlcIdentity, PlcName, String, Int32)	Initializes a new instance of the PlcString class using the specified `identity`, `name`, `value` and `length`.
PlcString(PlcIdentity, String)	Initializes a new instance of the PlcString class using the specified `identity` and `value`.
PlcString(PlcIdentity, String, Int32)	Initializes a new instance of the PlcString class using the specified `identity`, `value` and `length`.
PlcString(PlcStringType)	Initializes a new instance of the PlcString class using the specified `type`.
PlcString(PlcStringType, PlcName)	Initializes a new instance of the PlcString class using the specified `type` and `name`.
PlcString(PlcStringType, PlcName, String)	Initializes a new instance of the PlcString class using the specified `type`, `name` and `value`.
PlcString(PlcStringType, String)	Initializes a new instance of the PlcString class using the specified `type` and `value`.

Fields

Name	Description
MaxLength	Specifies the maximum value that can be used for the Length property.
MinLength	Specifies the minimum value that can be used for the Length property.

Properties

Name	Description
Item(Int32)	Gets the element at the specified index.
Length	Gets a 32-bit integer that represents the maximum number of characters that can be stored.
Value	Gets or sets the value assigned to the PLC value.

Methods

Name	Description
GetEnumerator	Returns an enumerator that iterates through the array.
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, String)	Stores the `value` in the IPlcDevice assigned to the `connection` specified.
ToString	Retrieves the string representation of the PlcString.

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