

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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