PlcReal Members

Namespace: IPS7Lnk.Advanced
Assemblies: IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll
The PlcReal type exposes the following members.

Constructors

PlcReal(PlcIdentity)

Initializes a new instance of the PlcReal class using the specified `identity`

C#

```
public PlcReal(PlcIdentity identity)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcReal to which the PLC value belongs.

Exceptions

ArgumentException

The `identity` does not refer to the DWord.

ArgumentNullException

The `identity` is a null reference (Nothing in Visual Basic).

PlcReal(PlcIdentity, PlcName)

Initializes a new instance of the PlcReal class using the specified `identity` and `name`.

C#

```
public PlcReal(PlcIdentity identity, PlcName name)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcReal to which the PLC value belongs.

`name` PlcName

The name of the value.

Exceptions

ArgumentException

The `identity` does not refer to the DWord.

ArgumentNullException

The `identity` or `name` is a null reference (Nothing in Visual Basic).

PlcReal(PlcIdentity, PlcName, Single)

Initializes a new instance of the PlcReal class using the specified `identity`, `name` and `value`.

C#

```
public PlcReal(PlcIdentity identity, PlcName name, float value)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcReal to which the PLC value belongs.

`name` PlcName

The name of the value.

`value` Single

The initial value of the new PlcReal.

Exceptions

ArgumentException

The `identity` does not refer to the DWord.

ArgumentNullException

The `identity` or `name` is a null reference (Nothing in Visual Basic).

PlcReal(PlcIdentity, Single)

Initializes a new instance of the PlcReal class using the specified `identity` and `value`.

C#

```
public PlcReal(PlcIdentity identity, float value)
```

Parameters

`identity` PlcIdentity

The PlcIdentity of the new PlcReal to which the PLC value belongs.

`value` Single

The initial value of the new PlcReal.

Exceptions

ArgumentException

The `identity` does not refer to the DWord.

ArgumentNullException

The `identity` is a null reference (Nothing in Visual Basic).

PlcReal(PlcRealType)

Initializes a new instance of the PlcReal class using the specified `type`

C#

```
public PlcReal(PlcRealType type)
```

Parameters

`type` PlcRealType

The PlcRealType of the new PlcReal to which the PLC value belongs.

Exceptions

ArgumentNullException

The `type` is a null reference (Nothing in Visual Basic).

PlcReal(PlcRealType, PlcName)

Initializes a new instance of the PlcReal class using the specified `type` and `name`.

C#

```
public PlcReal(PlcRealType type, PlcName name)
```

Parameters

`type` PlcRealType

The PlcRealType of the new PlcReal to which the PLC value belongs.

`name` PlcName

The name of the value.

Exceptions

ArgumentNullException

The `type` or `name` is a null reference (Nothing in Visual Basic).

PlcReal(PlcRealType, PlcName, Single)

Initializes a new instance of the PlcReal class using the specified `type`, `name` and `value`.

C#

```
public PlcReal(PlcRealType type, PlcName name, float value)
```

Parameters

`type` PlcRealType

The PlcRealType of the new PlcReal to which the PLC value belongs.

`name` PlcName

The name of the value.

`value` Single

The initial value of the new PlcReal.

Exceptions

ArgumentNullException

The `type` or `name` is a null reference (Nothing in Visual Basic).

PlcReal(PlcRealType, Single)

Initializes a new instance of the PlcReal class using the specified `type` and `value`.

C#

```
public PlcReal(PlcRealType type, float value)
```

Parameters

`type` PlcRealType

The PlcRealType of the new PlcReal to which the PLC value belongs.

`value` Single

The initial value of the new PlcReal.

Exceptions

ArgumentNullException

The `type` is a null reference (Nothing in Visual Basic).

Methods

GetValueCore(PlcDeviceConnection)

Retrieves the current value of the PLC value from a IPlcDevice using the `connection` specified.

C#

```
protected override float GetValueCore(PlcDeviceConnection connection)
```

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection from that the data is to be retrieved.

Returns

Single

The current value of the PLC value.

Exceptions

InvalidOperationException

The `connection` is in Faulted state and cannot longer be opened.

ObjectDisposedException

The `connection` has been disposed of.

RelocateCore(PlcAddress)

Relocates the value to the `address` specified.

C#

```
protected override IPlcValue RelocateCore(PlcAddress address)
```

Parameters

`address` PlcAddress

The PlcAddress to that the value is to be relocated.

Returns

IPlcValue

A new instance of the same type as this PLC value instance relocated to the `address` specified.

SetValueCore(PlcDeviceConnection, Single)

Stores the `value` in the IPlcDevice assigned to the `connection` specified.

C#

```
protected override void SetValueCore(PlcDeviceConnection connection, float value)
```

Parameters

`connection` PlcDeviceConnection

The PlcDeviceConnection to use to store the `value`.

`value` Single

The value to be stored.

Exceptions

InvalidOperationException

The `connection` is in Faulted state and cannot longer be opened.

ObjectDisposedException

The `connection` has been disposed of.

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