

PlcCounterOperand Members

Namespace: IPS7Lnk.Advanced

Assemblies: IPS7LnkNet.Advanced.dll, IPS7LnkNet.Advanced.dll

The [PlcCounterOperand](#) type exposes the following members.

Constructors

PlcCounterOperand(SerializationInfo, StreamingContext)

Initializes a new instance of the [PlcCounterOperand](#) class with serialized data.

C#

```
protected PlcCounterOperand(SerializationInfo info, StreamingContext context)
```

Parameters

info [Serialization.SerializationInfo](#)

The [Serialization.SerializationInfo](#) that holds the serialized object data about the exception being thrown.

context [Serialization.StreamingContext](#)

The [Serialization.StreamingContext](#) that contains contextual information about the source or destination.

Exceptions

[ArgumentNullException](#)

The info parameter is null reference (Nothing in Visual Basic).

[Serialization.SerializationException](#)

The class name is null reference (Nothing in Visual Basic) or [HResult](#) is zero (0).

Methods

CompareTo(Object)

Compares the current [PlcCounterOperand](#) with the **other**.

C#

```
public override int CompareTo(object other)
```

Parameters

other [Object](#)

The [PlcCounterOperand](#) to compare with this [PlcCounterOperand](#).

Returns

[Int32](#)

A 32-bit signed integer that indicates the relative order of the objects being compared ([CompareTo\(Object\)](#)).

CompareTo(PlcCounterOperand)

Compares the current [PlcCounterOperand](#) with another [PlcCounterOperand](#).

C#

```
public int CompareTo(PlcCounterOperand other)
```

Parameters

[other](#) [PlcCounterOperand](#)

The [PlcCounterOperand](#) to compare with this [PlcCounterOperand](#).

Returns

[Int32](#)

A 32-bit signed integer that indicates the relative order of the objects being compared ([CompareTo\(\)](#)).

Equals(Object)

Determines whether the specified [other](#) is equal to this [PlcCounterOperand](#).

C#

```
public override bool Equals(object other)
```

Parameters

[other](#) [Object](#)

The [PlcCounterOperand](#) to compare to the current [PlcCounterOperand](#).

Returns

[Boolean](#)

The value true if the specified [PlcCounterOperand](#) is equal to the current [PlcCounterOperand](#); otherwise the value false.

Equals(PlcCounterOperand)

Determines whether the specified **other** is equal to this **PlcCounterOperand**.

C#

```
public bool Equals(PlcCounterOperand other)
```

Parameters

other **PlcCounterOperand**

The **PlcCounterOperand** to compare to the current **PlcCounterOperand**.

Returns

Boolean

The value true if the specified **PlcCounterOperand** is equal to the current **PlcCounterOperand**; otherwise the value false.

GetHashCode()

Retrieves a hash code for this **PlcCounterOperand**.

C#

```
public override int GetHashCode()
```

Returns

Int32

An **Int32** that contains the hash code for the **PlcCounterOperand**.

GetObjectData(SerializationInfo, StreamingContext)

Sets the **Serialization.SerializationInfo** with information about the exception.

C#

```
[SecurityPermission(SecurityAction.LinkDemand, Flags =  
SecurityPermissionFlag.SerializationFormatter)]  
public override void GetObjectData(SerializationInfo info, StreamingContext context)
```

Parameters

info **Serialization.SerializationInfo**

The **Serialization.SerializationInfo** that holds the serialized object data about the exception being thrown.

context **Serialization.StreamingContext**

The [Serialization.StreamingContext](#) that contains contextual information about the source or destination.

Exceptions

[ArgumentNullException](#)

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

Word(Int32)

Creates a new [PlcWordAddress](#) from this [PlcCounterOperand](#) using the `byteNumber` specified.

C#

```
public PlcWordAddress Word(int byteNumber)
```

Parameters

`byteNumber` [Int32](#)

The number of the byte to that the new [PlcWordAddress](#) refers.

Returns

[PlcWordAddress](#)

A new [PlcWordAddress](#) which refers to this operand and to the `byteNumber` specified.

Exceptions

[ArgumentOutOfRangeException](#)

The `byteNumber` is out of the bounds defined by [MinByteNumber](#) or [MaxByteNumber](#).

Operators

Equality(PlcCounterOperand, PlcCounterOperand)

Returns a value indicating whether two instance of [PlcCounterOperand](#) are equal.

C#

```
public static bool operator ==(PlcCounterOperand left, PlcCounterOperand right)
```

GreaterThan(PlcCounterOperand, PlcCounterOperand)

Determines whether the first specified [PlcCounterOperand](#) object is greater than the second specified

PlcCounterOperand object.

C#

```
public static bool operator >(PlcCounterOperand left, PlcCounterOperand right)
```

GreaterThanOrEqual(PlcCounterOperand, PlcCounterOperand)

Determines whether the first specified [PlcCounterOperand](#) object is greater than or equal to the second specified [PlcCounterOperand](#) object.

C#

```
public static bool operator >=(PlcCounterOperand left, PlcCounterOperand right)
```

Implicit(String to PlcCounterOperand)

Converts a string formatted as operand to an [PlcCounterOperand](#) object.

C#

```
public static implicit operator PlcCounterOperand(string value)
```

Exceptions

[FormatException](#)

The **value** is not a valid PLC operand.

Inequality(PlcCounterOperand, PlcCounterOperand)

Returns a value indicating whether two instances of [PlcCounterOperand](#) are not equal.

C#

```
public static bool operator !=(PlcCounterOperand left, PlcCounterOperand right)
```

LessThan(PlcCounterOperand, PlcCounterOperand)

Determines whether the first specified [PlcCounterOperand](#) object is less than the second specified [PlcCounterOperand](#) object.

C#

```
public static bool operator <(PlcCounterOperand left, PlcCounterOperand right)
```

Exceptions

[ArgumentNullException](#)

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

LessThanOrEqual(PlcCounterOperand, PlcCounterOperand)

Determines whether the first specified `PlcCounterOperand` object is less than or equal to the second `PlcCounterOperand` object.

C#

```
public static bool operator <=(PlcCounterOperand left, PlcCounterOperand right)
```

Exceptions

`ArgumentNullException`

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

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