

PlcFlagOperand Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcFlagOperand(SerializationInfo, StreamingContext)

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

C#

```
protected PlcFlagOperand(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

Byte(Int32)

Creates a new [PlcByteAddress](#) from this [PlcFlagOperand](#) using the **byteNumber** specified.

C#

```
public PlcByteAddress Byte(int byteNumber)
```

Parameters

byteNumber [Int32](#)

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

Returns

[PlcByteAddress](#)

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

Exceptions

[ArgumentOutOfRangeException](#)

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

CompareTo(Object)

Compares the current [PlcFlagOperand](#) with the [other](#).

C#

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

Parameters

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

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

Returns

[Int32](#)

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

CompareTo(PlcFlagOperand)

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

C#

```
public int CompareTo(PlcFlagOperand other)
```

Parameters

[other](#) [PlcFlagOperand](#)

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

Returns

Int32

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

DWord(Int32)

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

C#

```
public PlcDWordAddress DWord(int byteNumber)
```

Parameters

`byteNumber` [Int32](#)

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

Returns

[PlcDWordAddress](#)

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

Exceptions

[ArgumentOutOfRangeException](#)

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

Equals(Object)

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

C#

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

Parameters

`other` [Object](#)

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

Returns

[Boolean](#)

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

Equals(PlcFlagOperand)

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

C#

```
public bool Equals(PlcFlagOperand other)
```

Parameters

other **PlcFlagOperand**

The **PlcFlagOperand** to compare to the current **PlcFlagOperand**.

Returns

Boolean

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

GetHashCode()

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

C#

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

Returns

Int32

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

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 [PlcFlagOperand](#) 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(PlcFlagOperand, PlcFlagOperand)

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

C#

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

GreaterThan(PlcFlagOperand, PlcFlagOperand)

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

PlcFlagOperand object.

C#

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

GreaterThanOrEqual(PlcFlagOperand, PlcFlagOperand)

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

C#

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

Implicit(String to PlcFlagOperand)

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

C#

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

Exceptions

[FormatException](#)

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

Inequality(PlcFlagOperand, PlcFlagOperand)

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

C#

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

LessThan(PlcFlagOperand, PlcFlagOperand)

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

C#

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

Exceptions

[ArgumentNullException](#)

The **left** is a null reference (Nothing in Visual Basic).

LessThanOrEqual(PlcFlagOperand, PlcFlagOperand)

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

C#

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

Exceptions

[ArgumentNullException](#)

The [left](#) is a null reference (Nothing in Visual Basic).

Table of Contents

Constructors	1
PlcFlagOperand(SerializationInfo, StreamingContext)	1
Methods	1
Byte(Int32)	1
CompareTo(Object)	2
CompareTo(PlcFlagOperand)	2
DWord(Int32)	3
Equals(Object)	3
Equals(PlcFlagOperand)	4
GetHashCode()	4
GetObjectData(SerializationInfo, StreamingContext)	4
Word(Int32)	5
Operators	5
Equality(PlcFlagOperand, PlcFlagOperand)	5
GreaterThan(PlcFlagOperand, PlcFlagOperand)	5
GreaterThanOrEqual(PlcFlagOperand, PlcFlagOperand)	6
Implicit(String to PlcFlagOperand)	6
Inequality(PlcFlagOperand, PlcFlagOperand)	6
LessThan(PlcFlagOperand, PlcFlagOperand)	6
LessThanOrEqual(PlcFlagOperand, PlcFlagOperand)	7