

PlcInputOperand Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcInputOperand(SerializationInfo, StreamingContext)

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

C#

```
protected PlcInputOperand(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 [PlcInputOperand](#) 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 [PlcInputOperand](#) with the [other](#).

C#

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

Parameters

[other](#) Object

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

Returns

[Int32](#)

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

CompareTo(PlcInputOperand)

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

C#

```
public int CompareTo(PlcInputOperand other)
```

Parameters

[other](#) [PlcInputOperand](#)

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

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 [PlcInputOperand](#) 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 [PlcInputOperand](#).

C#

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

Parameters

`other` [Object](#)

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

Returns

[Boolean](#)

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

Equals(PlcInputOperand)

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

C#

```
public bool Equals(PlcInputOperand other)
```

Parameters

other **PlcInputOperand**

The **PlcInputOperand** to compare to the current **PlcInputOperand**.

Returns

Boolean

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

GetHashCode()

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

C#

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

Returns

Int32

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

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 [PlcInputOperand](#) 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(PlcInputOperand, PlcInputOperand)

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

C#

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

GreaterThan(PlcInputOperand, PlcInputOperand)

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

PlcInputOperand object.

C#

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

GreaterThanOrEqual(PlcInputOperand, PlcInputOperand)

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

C#

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

Implicit(String to PlcInputOperand)

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

C#

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

Exceptions

[FormatException](#)

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

Inequality(PlcInputOperand, PlcInputOperand)

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

C#

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

LessThan(PlcInputOperand, PlcInputOperand)

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

C#

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

Exceptions

[ArgumentNullException](#)

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

LessThanOrEqual(PlcInputOperand, PlcInputOperand)

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

C#

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

Exceptions

[ArgumentNullException](#)

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

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