

PlcDataBlockOperand Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcDataBlockOperand(SerializationInfo, StreamingContext)

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

C#

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

C#

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

Parameters

other Object

The PlcDataBlockOperand to compare with this PlcDataBlockOperand.

Returns

Int32

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

CompareTo(PlcDataBlockOperand)

Compares the current PlcDataBlockOperand with another PlcDataBlockOperand.

C#

```
public int CompareTo(PlcDataBlockOperand other)
```

Parameters

other PlcDataBlockOperand

The PlcDataBlockOperand to compare with this PlcDataBlockOperand.

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 [PlcDataBlockOperand](#) 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 [PlcDataBlockOperand](#).

C#

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

Parameters

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

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

Returns

[Boolean](#)

The value true if the specified [PlcDataBlockOperand](#) is equal to the current [PlcDataBlockOperand](#);

otherwise the value false.

Equals(PlcDataBlockOperand)

Determines whether the specified `other` is equal to this `PlcDataBlockOperand`.

C#

```
public bool Equals(PlcDataBlockOperand other)
```

Parameters

`other` `PlcDataBlockOperand`

The `PlcDataBlockOperand` to compare to the current `PlcDataBlockOperand`.

Returns

`Boolean`

The value true if the specified `PlcDataBlockOperand` is equal to the current `PlcDataBlockOperand`; otherwise the value false.

GetHashCode()

Retrieves a hash code for this `PlcDataBlockOperand`.

C#

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

Returns

`Int32`

An `Int32` that contains the hash code for the `PlcDataBlockOperand`.

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 [PlcDataBlockOperand](#) 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(PlcDataBlockOperand, PlcDataBlockOperand)

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

C#

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

GreaterThan(PlcDataBlockOperand, PlcDataBlockOperand)

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

C#

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

GreaterThanOrEqual(PlcDataBlockOperand, PlcDataBlockOperand)

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

C#

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

Implicit(String to PlcDataBlockOperand)

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

C#

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

Exceptions

[FormatException](#)

The `value` is not a valid PLC operand.

Inequality(PlcDataBlockOperand, PlcDataBlockOperand)

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

C#

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

LessThan(PlcDataBlockOperand, PlcDataBlockOperand)

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

C#

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

Exceptions

ArgumentNullException

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

LessThanOrEqual(PlcDataBlockOperand, PlcDataBlockOperand)

Determines whether the first specified **PlcDataBlockOperand** object is less than or equal to the second **PlcDataBlockOperand** object.

C#

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

Exceptions

ArgumentNullException

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

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