

PlcWordAddress Members

Namespace: IPS7Lnk.Advanced

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

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

Constructors

PlcWordAddress(PlcOperand, Int32)

Initializes a new instance of the [PlcWordAddress](#) class using the specified **operand** and **byteNumber**.

C#

```
public PlcWordAddress(PlcOperand operand, int byteNumber)
```

Parameters

operand [PlcOperand](#)

The [PlcOperand](#) to that the new [PlcWordAddress](#) refers.

byteNumber [Int32](#)

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

Exceptions

[ArgumentException](#)

The type of **operand** specified is not supported.

[ArgumentNullException](#)

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

[ArgumentOutOfRangeException](#)

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

PlcWordAddress(PlcOperandType, Int32)

Initializes a new instance of the [PlcWordAddress](#) class using the specified **operandType** and **byteNumber**.

C#

```
public PlcWordAddress(PlcOperandType operandType, int byteNumber)
```

Parameters

operandType [PlcOperandType](#)

The [PlcOperandType](#) to that the new [PlcWordAddress](#) refers.

[byteNumber](#) [Int32](#)

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

Exceptions

[ArgumentException](#)

The [operandType](#) specified requires an operand number.

[ArgumentOutOfRangeException](#)

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

PlcWordAddress(PlcOperandType, Int32, Int32)

Initializes a new instance of the [PlcWordAddress](#) class using the specified [operandType](#), [operandNumber](#) and [byteNumber](#).

C#

```
public PlcWordAddress(PlcOperandType operandType, int operandNumber, int byteNumber)
```

Parameters

[operandType](#) [PlcOperandType](#)

The [PlcOperandType](#) to that the new [PlcWordAddress](#) refers.

[operandNumber](#) [Int32](#)

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

[byteNumber](#) [Int32](#)

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

Exceptions

[ArgumentException](#)

The [operandType](#) specified is not supported or the [operandType](#) specified does not support an operand number.

[ArgumentOutOfRangeException](#)

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

PlcWordAddress(SerializationInfo, StreamingContext)

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

C#

```
protected PlcWordAddress(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 [PlcWordAddress](#) with the **other**.

C#

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

Parameters

other [Object](#)

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

Returns

[Int32](#)

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

CompareTo(PlcWordAddress)

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

C#

```
public int CompareTo(PlcWordAddress other)
```

Parameters

other [PlcWordAddress](#)

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

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 [PlcWordAddress](#).

C#

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

Parameters

other [Object](#)

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

Returns

[Boolean](#)

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

Equals(PlcWordAddress)

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

C#

```
public bool Equals(PlcWordAddress other)
```

Parameters

other [PlcWordAddress](#)

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

Returns

Boolean

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

GetHashCode()

Retrieves a hash code for this [PlcWordAddress](#).

C#

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

Returns

Int32

An [Int32](#) that contains the hash code for the [PlcWordAddress](#).

Operators

Equality(PlcWordAddress, PlcWordAddress)

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

C#

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

GreaterThan(PlcWordAddress, PlcWordAddress)

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

C#

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

GreaterThanOrEqual(PlcWordAddress, PlcWordAddress)

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

C#

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

Implicit(String to PlcWordAddress)

Converts a string formatted as address to an [PlcWordAddress](#) object.

C#

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

Exceptions

[FormatException](#)

The **value** is not a valid PLC word address.

Inequality(PlcWordAddress, PlcWordAddress)

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

C#

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

LessThan(PlcWordAddress, PlcWordAddress)

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

C#

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

Exceptions

[ArgumentNullException](#)

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

LessThanOrEqual(PlcWordAddress, PlcWordAddress)

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

C#

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

Exceptions

[ArgumentNullException](#)

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

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