

# PlcWordAddress Class

**Namespace:** IPS7Lnk.Advanced

**Assemblies:** IPS7LnkNet.Advanced.dll

Represents a word address which refers to a specific data area stored within a programmable logic controller (PLC).

**C#**

```
[Serializable]
public class PlcWordAddress : PlcAddress, IComparable, ISerializable,
    IEquatable<PlcAddress>, IComparable<PlcAddress>, IEquatable<PlcWordAddress>,
    IComparable<PlcWordAddress>
```

**Inheritance** [Object](#) > [PlcIdentity](#) > [PlcAddress](#) > [PlcWordAddress](#)

**Attributes** [SerializableAttribute](#)

**Implements** [IComparable](#), [Serialization.ISerializable](#), [IEquatable<PlcAddress>](#),  
[IComparable<PlcAddress>](#), [IEquatable<PlcWordAddress>](#), [IComparable<PlcWordAddress>](#)

## Constructors

Name	Description
<a href="#">PlcWordAddress(PlcOperand, Int32)</a>	Initializes a new instance of the <a href="#">PlcWordAddress</a> class using the specified <a href="#">operand</a> and <a href="#">byteNumber</a> .
<a href="#">PlcWordAddress(PlcOperandType, Int32)</a>	Initializes a new instance of the <a href="#">PlcWordAddress</a> class using the specified <a href="#">operandType</a> and <a href="#">byteNumber</a> .
<a href="#">PlcWordAddress(PlcOperandType, Int32, Int32)</a>	Initializes a new instance of the <a href="#">PlcWordAddress</a> class using the specified <a href="#">operandType</a> , <a href="#">operandNumber</a> and <a href="#">byteNumber</a> .
<a href="#">PlcWordAddress(Serialization.SerializationInfo, Serialization.StreamingContext)</a>	Initializes a new instance of the <a href="#">PlcWordAddress</a> class with serialized data.

## Fields

Name	Description
<a href="#">MaxBitNumber</a>	Specifies the maximum value that can be assigned to the <a href="#">BitNumber</a> property. (Inherited from <a href="#">PlcAddress</a> )
<a href="#">MaxByteNumber</a>	Specifies the maximum value that can be assigned to the <a href="#">ByteNumber</a> property. (Inherited from <a href="#">PlcAddress</a> )
<a href="#">MaxOperandNumber</a>	Specifies the maximum value that can be assigned to the <a href="#">OperandNumber</a> property. (Inherited from <a href="#">PlcAddress</a> )
<a href="#">MinBitNumber</a>	Specifies the minimum value that can be assigned to the <a href="#">BitNumber</a> property. (Inherited from <a href="#">PlcAddress</a> )

Name	Description
MinByteNumber	Specifies the minimum value that can be assigned to the <a href="#">ByteNumber</a> property. (Inherited from <a href="#">PlcAddress</a> )
MinOperandNumber	Specifies the minimum value that can be assigned to the <a href="#">OperandNumber</a> property. (Inherited from <a href="#">PlcAddress</a> )

## Properties

Name	Description
BitNumber	Gets the bit number part of the address, which defines to which bit the address refers. (Inherited from <a href="#">PlcAddress</a> )
ByteNumber	Gets the byte number part of the address, which defines to which byte the address refers. (Inherited from <a href="#">PlcAddress</a> )
Operand	Gets the operand part of the address, which defines to which memory block the address refers. (Inherited from <a href="#">PlcAddress</a> )
OperandNumber	Gets the operand number part of the address, which defines to which operand the address refers. (Inherited from <a href="#">PlcAddress</a> )
OperandType	Gets the type of operand to which the address refers. (Inherited from <a href="#">PlcAddress</a> )
OriginalString	Gets the original string from that the address was created. (Inherited from <a href="#">PlcAddress</a> )
RawType	Gets the raw type of to which the address refers. (Inherited from <a href="#">PlcAddress</a> )
Standard	Gets a value indicating which <a href="#">PlcOperandStandard</a> was used to create the address. (Inherited from <a href="#">PlcAddress</a> )

## Methods

Name	Description
CompareTo(Object)	Compares the current <a href="#">PlcWordAddress</a> with the <a href="#">other</a> .
CompareTo(Object)	Compares the current <a href="#">PlcIdentity</a> with the <a href="#">other</a> . (Inherited from <a href="#">PlcIdentity</a> )
CompareTo(Object)	Compares the current <a href="#">PlcAddress</a> with the <a href="#">other</a> . (Inherited from <a href="#">PlcAddress</a> )
CompareTo(PlcAddress)	Compares the current <a href="#">PlcAddress</a> with another <a href="#">PlcAddress</a> . (Inherited from <a href="#">PlcAddress</a> )
CompareTo(PlcWordAddress)	Compares the current <a href="#">PlcWordAddress</a> with another <a href="#">PlcWordAddress</a> .
Distinct(IEnumerable)	Returns distinct addresses from the sequence. (Inherited from <a href="#">PlcAddress</a> )
Equals(Object)	Determines whether the specified <a href="#">other</a> is equal to this <a href="#">PlcWordAddress</a> .
Equals(Object)	Determines whether the specified <a href="#">other</a> is equal to this <a href="#">PlcIdentity</a> . (Inherited from <a href="#">PlcIdentity</a> )

Name	Description
Equals(Object)	Determines whether the specified <b>other</b> is equal to this <b>PlcAddress</b> . (Inherited from <b>PlcAddress</b> )
Equals(PlcAddress)	Determines whether the specified <b>other</b> is equal to this <b>PlcAddress</b> . (Inherited from <b>PlcAddress</b> )
Equals(PlcWordAddress)	Determines whether the specified <b>other</b> is equal to this <b>PlcWordAddress</b> .
Exclusive	Retrieves a new <b>PlcAddress</b> which points to the next address within the same <b>RawType</b> specific address sequence. (Inherited from <b>PlcAddress</b> )
Exclusive(PlcRawType)	Retrieves a new <b>PlcAddress</b> which points to the next address within the same <b>RawType</b> specific address sequence regarding the <b>rawType</b> specified. (Inherited from <b>PlcAddress</b> )
GetHashCode	Retrieves a hash code for this <b>PlcWordAddress</b> .
GetHashCode	Retrieves a hash code for this <b>PlcIdentity</b> . (Inherited from <b>PlcIdentity</b> )
GetHashCode	Retrieves a hash code for this <b>PlcAddress</b> . (Inherited from <b>PlcAddress</b> )
GetObjectData(Serialization.SerializationInfo, Serialization.StreamingContext)	Sets the <b>Serialization.SerializationInfo</b> with information about the exception. (Inherited from <b>PlcIdentity</b> )
GetObjectData(Serialization.SerializationInfo, Serialization.StreamingContext)	Sets the <b>Serialization.SerializationInfo</b> with information about the exception. (Inherited from <b>PlcAddress</b> )
Group(IEnumerable)	Groups the addresses of the sequence according to their <b>Operand</b> . (Inherited from <b>PlcAddress</b> )
Max(IEnumerable)	Returns the maximum address in a sequence of <b>PlcAddress</b> instances. (Inherited from <b>PlcAddress</b> )
Max(PlcAddress)	Returns the maximum address in a sequence of <b>PlcAddress</b> instances. (Inherited from <b>PlcAddress</b> )
Min(IEnumerable)	Returns the minimum address in a sequence of <b>PlcAddress</b> instances. (Inherited from <b>PlcAddress</b> )
Min(PlcAddress)	Returns the minimum address in a sequence of <b>PlcAddress</b> instances. (Inherited from <b>PlcAddress</b> )
Offset(Int32)	Creates and returns an adjusted copy of the <b>PlcAddress</b> class. The copy is adjusted by the specified amount. The original <b>PlcAddress</b> class remains unmodified. (Inherited from <b>PlcAddress</b> )
Offset(Int32, Int32)	Creates and returns an adjusted copy of the <b>PlcAddress</b> class. The copy is adjusted by the specified amount. The original <b>PlcAddress</b> class remains unmodified. (Inherited from <b>PlcAddress</b> )

Name	Description
Offset(Int32, Int32, Int32)	Creates and returns an adjusted copy of the <a href="#">PlcAddress</a> class. The copy is adjusted by the specified amount. The original <a href="#">PlcAddress</a> class remains unmodified. (Inherited from <a href="#">PlcAddress</a> )
Parse(String)	Converts an address string to a <a href="#">PlcAddress</a> instance. (Inherited from <a href="#">PlcAddress</a> )
ToString	Converts the name to its string representation. (Inherited from <a href="#">PlcIdentity</a> )
ToString	Converts the address to its string representation. (Inherited from <a href="#">PlcAddress</a> )
ToString(PlcOperandStandard)	Converts the address to its string representation using the specified <b>standard</b> . (Inherited from <a href="#">PlcAddress</a> )
ToString(PlcOperandStandard, PlcAddressFormat)	Converts the address to its string representation using the specified <b>standard</b> and <b>format</b> . (Inherited from <a href="#">PlcAddress</a> )
TryParse(String, PlcAddress@)	Determines whether a string is a valid address. (Inherited from <a href="#">PlcAddress</a> )

## Operators

Name	Description
op_Equality(PlcAddress, PlcAddress)	Returns a value indicating whether two instance of <a href="#">PlcAddress</a> are equal. (Inherited from <a href="#">PlcAddress</a> )
op_Equality(PlcIdentity, PlcIdentity)	Returns a value indicating whether two instance of <a href="#">PlcIdentity</a> are equal. (Inherited from <a href="#">PlcIdentity</a> )
op_Equality(PlcWordAddress, PlcWordAddress)	Returns a value indicating whether two instance of <a href="#">PlcWordAddress</a> are equal.
op_GreaterThan(PlcAddress, PlcAddress)	Determines whether the first specified <a href="#">PlcAddress</a> object is greater than the second specified <a href="#">PlcAddress</a> object. (Inherited from <a href="#">PlcAddress</a> )
op_GreaterThan(PlcIdentity, PlcIdentity)	Determines whether the first specified <a href="#">PlcIdentity</a> object is greater than the second specified <a href="#">PlcIdentity</a> object. (Inherited from <a href="#">PlcIdentity</a> )
op_GreaterThan(PlcWordAddress, PlcWordAddress)	Determines whether the first specified <a href="#">PlcWordAddress</a> object is greater than the second specified <a href="#">PlcWordAddress</a> object.
op_GreaterThanOrEqual(PlcAddress, PlcAddress)	Determines whether the first specified <a href="#">PlcAddress</a> object is greater than or equal to the second specified <a href="#">PlcAddress</a> object. (Inherited from <a href="#">PlcAddress</a> )
op_GreaterThanOrEqual(PlcIdentity, PlcIdentity)	Determines whether the first specified <a href="#">PlcIdentity</a> object is greater than or equal to the second specified <a href="#">PlcIdentity</a> object. (Inherited from <a href="#">PlcIdentity</a> )
op_GreaterThanOrEqual(PlcWordAddress, PlcWordAddress)	Determines whether the first specified <a href="#">PlcWordAddress</a> object is greater than or equal to the second specified <a href="#">PlcWordAddress</a> object.

Name	Description
op_Implicit(Advanced.PlcAddress)	Converts a string formatted as address to an <a href="#">PlcAddress</a> object. (Inherited from <a href="#">PlcAddress</a> )
op_Implicit(Advanced.PlcIdentity)	Converts a string formatted as name to an <a href="#">PlcIdentity</a> object. (Inherited from <a href="#">PlcIdentity</a> )
op_Implicit(Advanced.PlcWordAddress)	Converts a string formatted as address to an <a href="#">PlcWordAddress</a> object.
op_Inequality(PlcAddress, PlcAddress)	Returns a value indicating whether two instances of <a href="#">PlcAddress</a> are not equal. (Inherited from <a href="#">PlcAddress</a> )
op_Inequality(PlcIdentity, PlcIdentity)	Returns a value indicating whether two instances of <a href="#">PlcIdentity</a> are not equal. (Inherited from <a href="#">PlcIdentity</a> )
op_Inequality(PlcWordAddress, PlcWordAddress)	Returns a value indicating whether two instances of <a href="#">PlcWordAddress</a> are not equal.
op_LessThan(PlcAddress, PlcAddress)	Determines whether the first specified <a href="#">PlcAddress</a> object is less than the second specified <a href="#">PlcAddress</a> object. (Inherited from <a href="#">PlcAddress</a> )
op_LessThan(PlcIdentity, PlcIdentity)	Determines whether the first specified <a href="#">PlcIdentity</a> object is less than the second specified <a href="#">PlcIdentity</a> object. (Inherited from <a href="#">PlcIdentity</a> )
op_LessThan(PlcWordAddress, PlcWordAddress)	Determines whether the first specified <a href="#">PlcWordAddress</a> object is less than the second specified <a href="#">PlcWordAddress</a> object.
op_LessThanOrEqual(PlcAddress, PlcAddress)	Determines whether the first specified <a href="#">PlcAddress</a> object is less than or equal to the second <a href="#">PlcAddress</a> object. (Inherited from <a href="#">PlcAddress</a> )
op_LessThanOrEqual(PlcIdentity, PlcIdentity)	Determines whether the first specified <a href="#">PlcIdentity</a> object is less than or equal to the second <a href="#">PlcIdentity</a> object. (Inherited from <a href="#">PlcIdentity</a> )
op_LessThanOrEqual(PlcWordAddress, PlcWordAddress)	Determines whether the first specified <a href="#">PlcWordAddress</a> object is less than or equal to the second <a href="#">PlcWordAddress</a> object.



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