

# PlcPeripheryInputOperand Class

**Namespace:** IPS7Lnk.Advanced

**Assemblies:** IPS7LnkNet.Advanced.dll

Represents an operand which addresses a periphery input memory blocks within a programmable logic controller (PLC).

**C#**

```
[Serializable]
public class PlcPeripheryInputOperand : PlcOperand, IComparable, ISerializable,
    IEquatable<PlcOperand>, IComparable<PlcOperand>, IEquatable<PlcPeripheryInputOperand>,
    IComparable<PlcPeripheryInputOperand>
```

**Inheritance** [Object](#) > [PlcIdentity](#) > [PlcOperand](#) > [PlcPeripheryInputOperand](#)

**Attributes** [SerializableAttribute](#)

**Implements** [IComparable](#), [Serialization.ISerializable](#), [IEquatable<PlcOperand>](#),  
[IComparable<PlcOperand>](#), [IEquatable<PlcPeripheryInputOperand>](#),  
[IComparable<PlcPeripheryInputOperand>](#)

## Constructors

Name	Description
<a href="#">PlcPeripheryInputOperand</a> ( <a href="#">Serialization.SerializationInfo</a> , <a href="#">Serialization.StreamingContext</a> )	Initializes a new instance of the <a href="#">PlcPeripheryInputOperand</a> class with serialized data.

## Fields

Name	Description
<a href="#">MaxNumber</a>	Specifies the maximum value that can be assigned to the <a href="#">Number</a> property. (Inherited from <a href="#">PlcOperand</a> )
<a href="#">MinNumber</a>	Specifies the minimum value that can be assigned to the <a href="#">Number</a> property. (Inherited from <a href="#">PlcOperand</a> )

## Properties

Name	Description
<a href="#">Counter</a>	Gets the operand used to access the counter memory block of the controller. (Inherited from <a href="#">PlcOperand</a> )
<a href="#">Flag</a>	Gets the operand used to access the flag memory block of the controller. (Inherited from <a href="#">PlcOperand</a> )
<a href="#">Input</a>	Gets the operand used to access the input memory block of the controller. (Inherited from <a href="#">PlcOperand</a> )

Name	Description
Number	Gets the number associated with the operand. (Inherited from <a href="#">PlcOperand</a> )
OriginalString	Gets the original string from that the operand was created. (Inherited from <a href="#">PlcOperand</a> )
Output	Gets the operand used to access the output memory block of the controller. (Inherited from <a href="#">PlcOperand</a> )
PeripheryInput	Gets the operand used to access the peripheryInput memory block of the controller. (Inherited from <a href="#">PlcOperand</a> )
PeripheryOutput	Gets the operand used to access the peripheryOutput memory block of the controller. (Inherited from <a href="#">PlcOperand</a> )
Standard	Gets a value indicating which <a href="#">PlcOperandStandard</a> was used to create the operand. (Inherited from <a href="#">PlcOperand</a> )
Timer	Gets the operand used to access the timer memory block of the controller. (Inherited from <a href="#">PlcOperand</a> )
Type	Gets the type of operand represented. (Inherited from <a href="#">PlcOperand</a> )

## Methods

Name	Description
All	Retrieves all <a href="#">PlcOperand</a> instances which can be typically addressed within a PLC including the custom data block operands used so far. (Inherited from <a href="#">PlcOperand</a> )
Byte(Int32)	Creates a new <a href="#">PlcByteAddress</a> from this <a href="#">PlcPeripheryInputOperand</a> using the <a href="#">byteNumber</a> specified.
CompareTo(Object)	Compares the current <a href="#">PlcPeripheryInputOperand</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="#">PlcOperand</a> with the <a href="#">other</a> . (Inherited from <a href="#">PlcOperand</a> )
CompareTo(PlcOperand)	Compares the current <a href="#">PlcOperand</a> with another <a href="#">PlcOperand</a> . (Inherited from <a href="#">PlcOperand</a> )
CompareTo(PlcPeripheryInputOperand)	Compares the current <a href="#">PlcPeripheryInputOperand</a> with another <a href="#">PlcPeripheryInputOperand</a> .
DataBlock(Int32)	Retrieves the according <a href="#">PlcDataBlockOperand</a> using the specified <a href="#">number</a> of the data block operand. (Inherited from <a href="#">PlcOperand</a> )
DWord(Int32)	Creates a new <a href="#">PlcDWordAddress</a> from this <a href="#">PlcPeripheryInputOperand</a> using the <a href="#">byteNumber</a> specified.
Equals(Object)	Determines whether the specified <a href="#">other</a> is equal to this <a href="#">PlcPeripheryInputOperand</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> )
Equals(Object)	Determines whether the specified <a href="#">other</a> is equal to this <a href="#">PlcOperand</a> . (Inherited from <a href="#">PlcOperand</a> )

Name	Description
<code>Equals(PlcOperand)</code>	Determines whether the specified <code>other</code> is equal to this <code>PlcOperand</code> . (Inherited from <code>PlcOperand</code> )
<code>Equals(PlcPeripheryInputOperand)</code>	Determines whether the specified <code>other</code> is equal to this <code>PlcPeripheryInputOperand</code> .
<code>GetHashCode</code>	Retrieves a hash code for this <code>PlcPeripheryInputOperand</code> .
<code>GetHashCode</code>	Retrieves a hash code for this <code>PlcIdentity</code> . (Inherited from <code>PlcIdentity</code> )
<code>GetHashCode</code>	Retrieves a hash code for this <code>PlcOperand</code> . (Inherited from <code>PlcOperand</code> )
<code>GetObjectData(Serialization.SerializationInfo, Serialization.StreamingContext)</code>	Sets the <code>Serialization.SerializationInfo</code> with information about the exception.
<code>GetObjectData(Serialization.SerializationInfo, Serialization.StreamingContext)</code>	Sets the <code>Serialization.SerializationInfo</code> with information about the exception. (Inherited from <code>PlcIdentity</code> )
<code>GetObjectData(Serialization.SerializationInfo, Serialization.StreamingContext)</code>	Sets the <code>Serialization.SerializationInfo</code> with information about the exception. (Inherited from <code>PlcOperand</code> )
<code>GetSupportedRawTypes(PlcOperandType)</code>	Retrieves the <code>PlcRawType</code> members supported by the <code>PlcOperandType</code> specified by <code>type</code> . (Inherited from <code>PlcOperand</code> )
<code>IsSupported(PlcOperandType, PlcRawType)</code>	Determines whether the specified <code>rawType</code> can be used to address the PLC memory identified by the <code>PlcOperandType</code> specified by <code>type</code> . (Inherited from <code>PlcOperand</code> )
<code>Of(PlcOperandType)</code>	Retrieves the according <code>PlcOperand</code> which matches the <code>PlcOperandType</code> specified. (Inherited from <code>PlcOperand</code> )
<code>Parse(String)</code>	Converts an operand string to a <code>PlcOperand</code> instance. (Inherited from <code>PlcOperand</code> )
<code>ToString</code>	Converts the name to its string representation. (Inherited from <code>PlcIdentity</code> )
<code>ToString</code>	Converts the operand to its string representation. (Inherited from <code>PlcOperand</code> )
<code>ToString(PlcOperandStandard)</code>	Converts the operand to its string representation using the specified <code>standard</code> . (Inherited from <code>PlcOperand</code> )
<code>TryParse(String, PlcOperand@)</code>	Determines whether a string is a valid operand. (Inherited from <code>PlcOperand</code> )
<code>UserDefinedType(Int32)</code>	Retrieves the according <code>PlcUserDefinedTypeOperand</code> using the specified <code>number</code> of the user defined type operand. (Inherited from <code>PlcOperand</code> )
<code>Word(Int32)</code>	Creates a new <code>PlcWordAddress</code> from this <code>PlcPeripheryInputOperand</code> using the <code>byteNumber</code> specified.

## Operators

Name	Description
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(PlcOperand, PlcOperand)	Returns a value indicating whether two instance of <a href="#">PlcOperand</a> are equal. (Inherited from <a href="#">PlcOperand</a> )
op_Equality(PlcPeripheryInputOperand, PlcPeripheryInputOperand)	Returns a value indicating whether two instance of <a href="#">PlcPeripheryInputOperand</a> are equal.
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(PlcOperand, PlcOperand)	Determines whether the first specified <a href="#">PlcOperand</a> object is greater than the second specified <a href="#">PlcOperand</a> object. (Inherited from <a href="#">PlcOperand</a> )
op_GreaterThan(PlcPeripheryInputOperand, PlcPeripheryInputOperand)	Determines whether the first specified <a href="#">PlcPeripheryInputOperand</a> object is greater than the second specified <a href="#">PlcPeripheryInputOperand</a> object.
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(PlcOperand, PlcOperand)	Determines whether the first specified <a href="#">PlcOperand</a> object is greater than or equal to the second specified <a href="#">PlcOperand</a> object. (Inherited from <a href="#">PlcOperand</a> )
op_GreaterThanOrEqual(PlcPeripheryInputOperand, PlcPeripheryInputOperand)	Determines whether the first specified <a href="#">PlcPeripheryInputOperand</a> object is greater than or equal to the second specified <a href="#">PlcPeripheryInputOperand</a> object.
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.PlcOperand)	Converts a string formatted as operand to an <a href="#">PlcOperand</a> object. (Inherited from <a href="#">PlcOperand</a> )
op_Implicit(Advanced.PlcPeripheryInputOperand)	Converts a string formatted as operand to an <a href="#">PlcPeripheryInputOperand</a> object.
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(PlcOperand, PlcOperand)	Returns a value indicating whether two instances of <a href="#">PlcOperand</a> are not equal. (Inherited from <a href="#">PlcOperand</a> )
op_Inequality(PlcPeripheryInputOperand, PlcPeripheryInputOperand)	Returns a value indicating whether two instances of <a href="#">PlcPeripheryInputOperand</a> are not equal.
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> )

Name	Description
op_LessThan(PlcOperand, PlcOperand)	Determines whether the first specified <a href="#">PlcOperand</a> object is less than the second specified <a href="#">PlcOperand</a> object. (Inherited from <a href="#">PlcOperand</a> )
op_LessThan(PlcPeripheryInputOperand, PlcPeripheryInputOperand)	Determines whether the first specified <a href="#">PlcPeripheryInputOperand</a> object is less than the second specified <a href="#">PlcPeripheryInputOperand</a> object.
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(PlcOperand, PlcOperand)	Determines whether the first specified <a href="#">PlcOperand</a> object is less than or equal to the second <a href="#">PlcOperand</a> object. (Inherited from <a href="#">PlcOperand</a> )
op_LessThanOrEqual(PlcPeripheryInputOperand, PlcPeripheryInputOperand)	Determines whether the first specified <a href="#">PlcPeripheryInputOperand</a> object is less than or equal to the second <a href="#">PlcPeripheryInputOperand</a> object.



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