PlcUserDefinedTypeOperand Class

Namespace: IPS7Lnk.Advanced
Assemblies: IPS7LnkNet.Advanced.dll

Represents an operand which addresses a user defined type within a programmable logic controller (PLC).

C#

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

Inheritance Object › PlcIdentity › PlcOperand › PlcUserDefinedTypeOperand

Attributes SerializableAttribute

Implements IComparable, Serialization.ISerializable, IEquatable<PlcOperand>, IComparable<PlcOperand>, IEquatable<PlcUserDefinedTypeOperand>, IComparable<PlcUserDefinedTypeOperand>

Constructors

Name	Description
PlcUserDefinedTypeOperand(Serialization.SerializationInfo, Serialization.StreamingContext)	Initializes a new instance of the PlcUserDefinedTypeOperand class with serialized data.

Fields

Name	Description
MaxNumber	Specifies the maximum value that can be assigned to the Number property. (Inherited from PlcOperand)
MinNumber	Specifies the minimum value that can be assigned to the Number property. (Inherited from PlcOperand)

Properties

Name	Description
Counter	Gets the operand used to access the counter memory block of the controller. (Inherited from PlcOperand)
Flag	Gets the operand used to access the flag memory block of the controller. (Inherited from PlcOperand)
Input	Gets the operand used to access the input memory block of the controller. (Inherited from PlcOperand)
Number	Gets the number associated with the operand. (Inherited from PlcOperand)

Name	Description
OriginalString	Gets the original string from that the operand was created. (Inherited from PlcOperand)
Output	Gets the operand used to access the output memory block of the controller. (Inherited from PlcOperand)
PeripheryInput	Gets the operand used to access the peripheryInput memory block of the controller. (Inherited from PlcOperand)
PeripheryOutput	Gets the operand used to access the peripheryOutput memory block of the controller. (Inherited from PlcOperand)
Standard	Gets a value indicating which PlcOperandStandard was used to create the operand. (Inherited from PlcOperand)
Timer	Gets the operand used to access the timer memory block of the controller. (Inherited from PlcOperand)
Type	Gets the type of operand represented. (Inherited from PlcOperand)

Methods

Name	Description
All	Retrieves all PlcOperand instances which can be typically addressed within a PLC including the custom data block operands used so far. (Inherited from PlcOperand)
CompareTo(Object)	Compares the current PlcUserDefinedTypeOperand with the `other`.
CompareTo(Object)	Compares the current PlcIdentity with the `other`. (Inherited from PlcIdentity)
CompareTo(Object)	Compares the current PlcOperand with the `other`. (Inherited from PlcOperand)
CompareTo(PlcOperand)	Compares the current PlcOperand with another PlcOperand. (Inherited from PlcOperand)
CompareTo(PlcUserDefinedTypeOperand)	Compares the current PlcUserDefinedTypeOperand with another PlcUserDefinedTypeOperand.
DataBlock(Int32)	Retrieves the according PlcDataBlockOperand using the specified `number` of the data block operand. (Inherited from PlcOperand)
Equals(Object)	Determines whether the specified `other` is equal to this PlcUserDefinedTypeOperand.
Equals(Object)	Determines whether the specified `other` is equal to this PlcIdentity. (Inherited from PlcIdentity)
Equals(Object)	Determines whether the specified `other` is equal to this PlcOperand. (Inherited from PlcOperand)
Equals(PlcOperand)	Determines whether the specified `other` is equal to this PlcOperand. (Inherited from PlcOperand)
Equals(PlcUserDefinedTypeOperand)	Determines whether the specified `other` is equal to this PlcUserDefinedTypeOperand.
GetHashCode	Retrieves a hash code for this PlcUserDefinedTypeOperand.

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

Operators

Name	Description
op_Equality(PlcIdentity, PlcIdentity)	Returns a value indicating whether two instance of PlcIdentity are equal. (Inherited from PlcIdentity)
op_Equality(PlcOperand, PlcOperand)	Returns a value indicating whether two instance of PlcOperand are equal. (Inherited from PlcOperand)
op_Equality(PlcUserDefinedTypeOperand, PlcUserDefinedTypeOperand)	Returns a value indicating whether two instance of PlcUserDefinedTypeOperand are equal.

Name	Description
op_GreaterThan(PlcIdentity, PlcIdentity)	Determines whether the first specified PlcIdentity object is greater than the second specified PlcIdentity object. (Inherited from PlcIdentity)
op_GreaterThan(PlcOperand, PlcOperand)	Determines whether the first specified PlcOperand object is greater than the second specified PlcOperand object. (Inherited from PlcOperand)
op_GreaterThan(PlcUserDefinedTypeOperand, PlcUserDefinedTypeOperand)	Determines whether the first specified PlcUserDefinedTypeOperand object is greater than the second specified PlcUserDefinedTypeOperand object.
op_GreaterThanOrEqual(PlcIdentity, PlcIdentity)	Determines whether the first specified PlcIdentity object is greater than or equal to the second specified PlcIdentity object. (Inherited from PlcIdentity)
op_GreaterThanOrEqual(PlcOperand, PlcOperand)	Determines whether the first specified PlcOperand object is greater than or equal to the second specified PlcOperand object. (Inherited from PlcOperand)
op_GreaterThanOrEqual(PlcUserDefinedTypeOperand, PlcUserDefinedTypeOperand)	Determines whether the first specified PlcUserDefinedTypeOperand object is greater than or equal to the second specified PlcUserDefinedTypeOperand object.
op_Implicit(Advanced.PlcIdentity)	Converts a string formatted as name to an PlcIdentity object. (Inherited from PlcIdentity)
op_Implicit(Advanced.PlcOperand)	Converts a string formatted as operand to an PlcOperand object. (Inherited from PlcOperand)
op_Implicit(Advanced.PlcUserDefinedTypeOperand)	Converts a string formatted as operand to an PlcUserDefinedTypeOperand object.
op_Inequality(PlcIdentity, PlcIdentity)	Returns a value indicating whether two instances of PlcIdentity are not equal. (Inherited from PlcIdentity)
op_Inequality(PlcOperand, PlcOperand)	Returns a value indicating whether two instances of PlcOperand are not equal. (Inherited from PlcOperand)
op_Inequality(PlcUserDefinedTypeOperand, PlcUserDefinedTypeOperand)	Returns a value indicating whether two instances of PlcUserDefinedTypeOperand are not equal.
op_LessThan(PlcIdentity, PlcIdentity)	Determines whether the first specified PlcIdentity object is less than the second specified PlcIdentity object. (Inherited from PlcIdentity)
op_LessThan(PlcOperand, PlcOperand)	Determines whether the first specified PlcOperand object is less than the second specified PlcOperand object. (Inherited from PlcOperand)
op_LessThan(PlcUserDefinedTypeOperand, PlcUserDefinedTypeOperand)	Determines whether the first specified PlcUserDefinedTypeOperand object is less than the second specified PlcUserDefinedTypeOperand object.

Name	Description
op_LessThanOrEqual(PlcIdentity, PlcIdentity)	Determines whether the first specified PlcIdentity object is less than or equal to the second PlcIdentity object. (Inherited from PlcIdentity)
op_LessThanOrEqual(PlcOperand, PlcOperand)	Determines whether the first specified PlcOperand object is less than or equal to the second PlcOperand object. (Inherited from PlcOperand)
op_LessThanOrEqual(PlcUserDefinedTypeOperand, PlcUserDefinedTypeOperand)	Determines whether the first specified PlcUserDefinedTypeOperand object is less than or equal to the second PlcUserDefinedTypeOperand object.

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