PlcByteAddress Class

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

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

C#

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

Inheritance Object › PlcIdentity › PlcAddress › PlcByteAddress

Attributes SerializableAttribute

Implements IComparable, Serialization.ISerializable, IEquatable<PlcAddress>, IComparable<PlcAddress>, IEquatable<PlcByteAddress>, IComparable<PlcByteAddress>

Constructors

Name	Description
PlcByteAddress(PlcOperand, Int32)	Initializes a new instance of the PlcByteAddress class using the specified `operand` and `byteNumber`.
PlcByteAddress(PlcOperandType, Int32)	Initializes a new instance of the PlcByteAddress class using the specified `operandType` and `byteNumber`.
PlcByteAddress(PlcOperandType, Int32, Int32)	Initializes a new instance of the PlcByteAddress class using the specified `operandType`, `operandNumber` and `byteNumber`.
PlcByteAddress(Serialization.SerializationInfo, Serialization.StreamingContext)	Initializes a new instance of the PlcByteAddress class with serialized data.

Fields

Name	Description
MaxBitNumber	Specifies the maximum value that can be assigned to the BitNumber property. (Inherited from PlcAddress)
MaxByteNumber	Specifies the maximum value that can be assigned to the ByteNumber property. (Inherited from PlcAddress)
MaxOperandNumber	Specifies the maximum value that can be assigned to the OperandNumber property. (Inherited from PlcAddress)
MinBitNumber	Specifies the minimum value that can be assigned to the BitNumber property. (Inherited from PlcAddress)

Name	Description
MinByteNumber	Specifies the minimum value that can be assigned to the ByteNumber property. (Inherited from PlcAddress)
MinOperandNumber	Specifies the minimum value that can be assigned to the OperandNumber property. (Inherited from PlcAddress)

Properties

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

Methods

Name	Description
Bit(Int32)	Creates a new PlcBitAddress from this PlcByteAddress using the `bitNumber` specified.
CompareTo(Object)	Compares the current PlcByteAddress with the `other`.
CompareTo(Object)	Compares the current PlcIdentity with the `other`. (Inherited from PlcIdentity)
CompareTo(Object)	Compares the current PlcAddress with the `other`. (Inherited from PlcAddress)
CompareTo(PlcAddress)	Compares the current PlcAddress with another PlcAddress. (Inherited from PlcAddress)
CompareTo(PlcByteAddress)	Compares the current PlcByteAddress with another PlcByteAddress.
Distinct(IEnumerable)	Returns distinct addresses from the sequence. (Inherited from PlcAddress)
Equals(Object)	Determines whether the specified `other` is equal to this PlcByteAddress.
Equals(Object)	Determines whether the specified `other` is equal to this PlcIdentity. (Inherited from PlcIdentity)

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

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

Operators

Name	Description
op_Equality(PlcAddress, PlcAddress)	Returns a value indicating whether two instance of PlcAddress are equal. (Inherited from PlcAddress)
op_Equality(PlcByteAddress, PlcByteAddress)	Returns a value indicating whether two instance of PlcByteAddress are equal.
op_Equality(PlcIdentity, PlcIdentity)	Returns a value indicating whether two instance of PlcIdentity are equal. (Inherited from PlcIdentity)
op_GreaterThan(PlcAddress, PlcAddress)	Determines whether the first specified PlcAddress object is greater than the second specified PlcAddress object. (Inherited from PlcAddress)
op_GreaterThan(PlcByteAddress, PlcByteAddress)	Determines whether the first specified PlcByteAddress object is greater than the second specified PlcByteAddress object.
op_GreaterThan(PlcIdentity, PlcIdentity)	Determines whether the first specified PlcIdentity object is greater than the second specified PlcIdentity object. (Inherited from PlcIdentity)
op_GreaterThanOrEqual(PlcAddress, PlcAddress)	Determines whether the first specified PlcAddress object is greater than or equal to the second specified PlcAddress object. (Inherited from PlcAddress)
op_GreaterThanOrEqual(PlcByteAddress, PlcByteAddress)	Determines whether the first specified PlcByteAddress object is greater than or equal to the second specified PlcByteAddress 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)

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

Table of Contents