Altus Alnet II Connector

Devices compatible with Alnet II protocol.

- Name: **Alnet2**
- Version: 1.3.8.0
- Protocol: Alnet II (Proprietary)
- Interface: TCP/IP
- Runtime: .NET 2.0 (Multiplatform)
- Configuration:
  - Devices / Protocols

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Overview

Devices compatible with Alnet II protocol.

From FrameworX 10.1.6a, the connector runs on Windows and Linux, ARM64 included, in .NET 4.8 and .NET 10 solutions, with no external library to install. Unsolicited writes sent by the controller update exactly the addressed points: single operands, table operands and blocks, including %S outputs.

Communication Driver Information	
Driver name	Alnet2
Assembly Name	T.ProtocolDriver.Alnet2
Assembly Version	1.3.8.0
Available for Linux	True
Devices supported	Devices Using Alnet II Protocol like AL-3412, AL-3405, PO7094, ...
Manufacturer	Altus
Protocol	Alnet II (Proprietary)
PC Requirements	TCP/IP

Supported Operands

Operand	Read	Write	Bit Read	Bit Write	Data Type	Address size
E - Input Octet	**Yes**	**Yes**	**Yes**	**Yes**	Byte	1 byte
S - Output Octet	**Yes**	**Yes**	**Yes**	**Yes**	Byte	1 byte
A - Auxiliary	**Yes**	**Yes**	**Yes**	**Yes**	Byte	1 byte
M - Memory	**Yes**	**Yes**	**Yes**		Word	2 bytes
I - Integer	**Yes**	**Yes**	**Yes**		DWord	4 bytes
D - Decimal	**Yes**	**Yes**	**Yes**		LBCD	4 bytes
F - Real	**Yes**	**Yes**			Single	4 bytes
TM - Memory Table	**Yes**	**Yes**	**Yes**		Word	2 bytes
TI - Integer Table	**Yes**	**Yes**	**Yes**		DWord	4 bytes
TD - Decimal Table	**Yes**	**Yes**	**Yes**		LBCD	4 bytes
TF - Real Table	**Yes**	**Yes**			Single	4 bytes

Channels Configuration

Protocol Options

BlockSize: Defines the maximum amount of items per group, the default value is **512**.

Node: Computer node address in the Alnet network. Default value: 1 (Used only to unsolicited messages)

SubNetwork: Alnet subnetwork. Default value: 0 (Used only to unsolicited messages)

Nodes Configuration

Station Configuration

IP: IP address of the target PLC station in the Alnet network.

Port: IP Port used in the Alnet II communication. Default value: 405 (Read Only)

: Station uses 4 semicolon-separated fields: `

- DestCpNode;
- DestCpSubNet;
- OriginCpNode;
- OriginCpSubNet`.
- These are **required** for Alnet I network routing. The DestCpNode is typically derived from the last octet of the PLC IP address. DestCpSubNet defaults to 64.

Points Configuration

The syntax for the Alnet communication points are:

- ***%<Operand><Address>***

  Operand: Indicates the memory area, the valid values are:

Operand	Read	Write	Bit Read	Bit Write	Data Type	Address size
E - Input Octet	**Yes**	**Yes**	**Yes**	**Yes**	Byte	1 byte
S - Output Octet	**Yes**	**Yes**	**Yes**	**Yes**	Byte	1 byte
A - Auxiliary	**Yes**	**Yes**	**Yes**	**Yes**	Byte	1 byte
M - Memory	**Yes**	**Yes**	**Yes**		Word	2 bytes
I - Integer	**Yes**	**Yes**	**Yes**		DWord	4 bytes
D - Decimal	**Yes**	**Yes**	**Yes**		LBCD	4 bytes
F - Real	**Yes**	**Yes**			Single	4 bytes

  Address: Indicates the data address in the memory area.

  Ex: %E0000 (Operand = E, Address = 0)

- ***%<Operand><TableId>[TablePosition]***

  Operand: Indicates the memory area, the valid values are:

Operand	Read	Write	Bit Read	Bit Write	Data Type	Address size
TM - Memory Table	**Yes**	**Yes**	**Yes**		Word	2 bytes
TI - Integer Table	**Yes**	**Yes**	**Yes**		DWord	4 bytes
TD - Decimal Table	**Yes**	**Yes**	**Yes**		LBCD	4 bytes
TF - Real Table	**Yes**	**Yes**			Single	4 bytes

  TableId: Indicates the table memory area.

  TablePosition: Indicates the position in table memory area.

  Ex: %TM0001[2] (Operand = TM, TableId = 1 TablePosition = 2)

Driver Revision History

Alnet-II Driver Revision History	
Version	**Notes**
1.3.7.0	Initial release on new documentation standards
1.3.8.0	2026-10. FrameworX 10.1.6a. Runs on Windows and Linux, ARM64 included, in .NET 4.8 and .NET 10 solutions, with no external library. Unsolicited writes update exactly the addressed points, including table operands, blocks and %S outputs.

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