1. Product Description

The master/slave ALNET I driver AL-2732 allows the connection of AL-2002/MSP programmable controllers to ALNET I networks through both serial channels of the AL-2005/RTMP Real-Time Multitasking Processor associated, where it is loaded. So, with the AL-2732 driver it is possible to enlarge the number of serial channels of the CP from 1 to 3.

As a master, the driver could control one or more PCs interconnected by an ALNET I network. The driver executes a constant cycle, reading the link table, where all the associations between the operands in the master CP and its slaves are described, and performing the related queries.

As a slave, the AL-2002/MSP PC operands could be read or written by another ALNET I master device, such as a computer running a supervisory software or a microprocessed man-machine interface device. The driver receives a query from the master of the network, obtains data from the AL-2002 CP and returns the answer.

This Technical Characteristic is valid for AL-2732 revision 2.0 and above.

2. Components

The AL-2732 box contais the application software on floppy disk and the User Manual (only in Portuguese, code 6207-106.8)

3. Functional Characteristics

3.1 General Characteristics

■ RS-232C or RS-485 interface

■ modem control signals with RS-232C

■ protocol: ALNET I v2.0 in slave mode, ALNET I v1.0 and v2.0 in master mode

■ baud rates: 300, 600, 1200, 2400, 4800, 9600, 19200 e 38400 bauds

■ serial configuration: 8 data bits, 1 stop bit, even parity

■ supports up to two independent ALNET I networks, by setting up both serial channels of the AL-2005/RTMP, COM A and COM B

3.2 Software Characteristics

■ written in C language (Borland C++ 3.1 compiler)

■ loaded in AL-2005/RTMP processor with AL-3860 loader

■ function module F-2005.016, called in the PC application software, performs the interaction between the driver and the AL-2002 PC; its used to inicialize and to transfer data between the driver and the PC

> ATTENTION:
>
> The AL-3860 loader and the F-2005.016 module are included with the AL-2005/RTMP product (code 6002-605.7)

■ driver configuration includes communication parameters and the list of operands to be read or written

■ runs only in AL-2005/RTMP processor and could run concurrently with other application software

■ allows AL-2002 PC to be the master or a slave of an ALNET I network

■ ALNET I commands accepted:

Code	Description	Mode
002	Force Operand	Master ALNET I v1.0
006	Read Operand	Master ALNET I v1.0
014	Force Table Block	Master ALNET I v1.0
015	Read Table Block	Master ALNET I v1.0
037	Read Status	Master and Slave
040	Read Operand	Master and Slave
041	Read Table	Master and Slave
047	Read Communication Status	Master and Slave
129	Force Operand	Master and Slave
130	Force Table	Master and Slave
133	Write Operand	Master and Slave

4. Manuals

The User Manual (only in Portuguese, code 6207- 106.8) describes the master/slave ALNET I driver AL-2732 in details.

5. Revisions

The information in this Technical Characteristic is subject to change without notice and should not be considered as a commitment by ALTUS.

The revision of this document is shown on top of the page, indicating content change or format improvement.

The following report shows each revision and corresponding remarks:

Revision: A	Date: 26/11/96
Approval: José Adil Albrecht - AP&D	
Author: Rosana Casais - AP&D	

Remarks:

■ Initial revision