1. Product Description

The master/slave Modbus driver AL-2734 allows the connection of AL-2002/MSP PCs to a Modbus network through both serial channels of the AL-2005/RTMP Real-Time Multitasking Processor associated, where it is loaded. As a master, the driver makes possible the communication with devices such as frequency inverters and intelligent coils. As a slave, the AL-2002/MSP PC operands could be read or written by another Modbus master device.

This Technical Characteristic is valid for AL-2734 revision 2.0 and above.

2. Components

The AL-2734 box contais the application software on floppy disk and the User Manual (only in Portuguese, code 6207-103.3)

3. Functional Characteristics

3.1 General Characteristics

- Modbus protocol with RTU transmission mode (binary, not ASCII mode)
- Modbus protocol commands carried out by the driver: 1, 2, 3, 4, 5, 6, 15 e 16 (reading and writing of binary operands and 16 bits words)
- as a slave, the driver replies commands requested by a master with response messages
- as a master, the driver initiates transactions, sending queries to slaves
- supports up to two independent Modbus networks, by setting up both serial channels of the AL-2005/RTMP, COM A and COM B
- baud rate: 110 to 38400 bauds

3.2 Software Characteristics

- links PC operands to Modbus variables
- allows AL-2002 PC to be the master or a slave of a Modbus network
- written in C language (Borland C++ 3.1 compiler)
- runs only in AL-2005/RTMP processor
- loaded in AL-2005/RTMP processor with AL-3860 loader
- function module F-2005.016 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)

4. Manuals

The User Manual (only in Portuguese, code 6207-103.3) describes the master/slave Modbus driver AL-2734 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: 11/22/96
Approval: José Adil Albrecht - AP&D	
Author: Nelson Luís Theves - AP&D	

Remarks:

■ Initial revision