AD-4532B-08
Ethernet Interface
A&D Company, Limited

1WMPD4001851

▼ 1.   Introduction

This Ethernet Interface (AD-4532B-08) can connect an AD-4532B to the LAN port of a computer. When using this Interface, the weight data of the AD-4532B can be managed through a network.
When using the data acquisition software, WinCT-Plus, the computer can acquire data from multiple weighing devices and can control these devices with commands. Microsoft EXCEL can import and use the data stored by WinCT-Plus. (Install EXCEL before use.)

▼ 2.   Specifications and Unpacking the AD-4532B-08
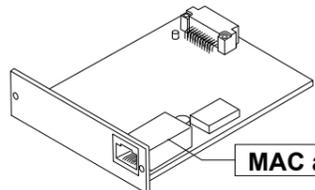
AD-4532B-08
Ethernet Interface

MAC address

IP Address   .   .   .

IP address label (5 labels)
Write a preset IP address and affix it on the panel.
Protective cover (5 labels)
Affix it on the IP address label.

▼ 2.1   Specifications

Operating environment : -10°C to +40°C
Net weight : Approximately 90g

▼ 2.2   Ethernet Interface

Connector : RJ45
Protocol : TCP/IP
MAC address : printed on the board
IP address : 172.16.100.2 (Factory setting)
172.16.100.3 ~ 172.16.100.16
Network Interface : 10BASE-T or 100BASE-TX
(Auto-detection)

▼ 3.   Setting and Connecting

▼ 3.1   Installing the AD-4532B-08

Caution:Turn off the AD-4532B while doing the following work.

Step1 Record the MAC address (Hardware address) printed on the AD-4532B-08 board. The MAC address is required when specifying the IP address. (Refer to the figure at the right)
Example: 00-20-4A-84-23-D6
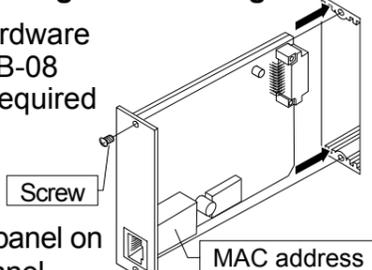
Screw

Step2 Remove the two screws from the panel on the indicator rear to remove the panel.

Step3 Insert the AD-4532B-08 board into the indicator and secure it using the two screws removed in step 2.

MAC address

▼ 3.2   Connecting the AD-4532B-08 to a Computer

Caution
□ **Contact the network manager before connecting the AD-4532B-08 to a network. The AD-4532B-08 could generate a network error. A&D and dealers assume no responsibility for errors.**
□ **Preset the IP address and subnet mask to the AD-4532B-08 one by one. The IP address ,172.16.100.2, is set for all units at the factory.**
□ **Do not duplicate an IP address. The IP address can not be returned to the factory setting automatically.**

AD-4532B-08

Step1 Connect the AD-4532B-08 and the computer using a hub and straight cables.
(When connecting directly without using hub, use a cross cable)

Cross LAN cable
Straight cable

Step2 Turn on the AD-4532B.

Step3 Input the IP addresses and a subnet mask of the AD-4532B-08 and computer.
Refer to the procedure [A&D WinCT-Plus] → [Manual.PDF] for the setting of devices.

Hub

Step4 Write the IP address on "the IP address label" and affix it where you can see the address easily.

LAN

Step5 Install the data acquisition software "RsMulti" into the computer.
Refer to [A&D WinCT-Plus] → [Manual.PDF] for this installation.

Straight cable

Computer
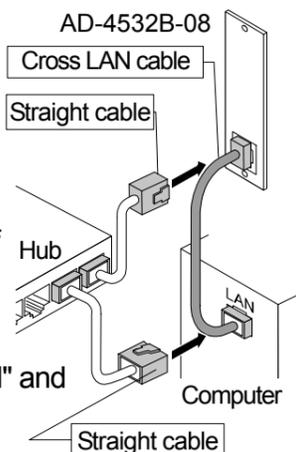
▼ 3.3   The Outline for Windows Communication Software

Run the data acquisition software "RsMulti". Menu: [Start] → [Program] → [A&D WinCT-Plus] → [RsMulti].
Refer to the [A&D WinCT-Plus] → [Manual] for the operation.
□ The software can acquire data from multiple devices connected with a LAN or from RS-232C.
□ The software can control these devices with commands.
□ The software can acquire data transmitted from these devices.
□ The stored data can be used with Microsoft EXCEL. (Install EXCEL before use.)
□ Up to 100 weighing instruments can be connected. However, the number of connections may be restricted depending on the computer's performance and the frequency of data acquisition.

   Example
   Two indicators are connected.

A sample window of the "RsMulti"

	IP address	Subnet mask
Computer	172.16.100.1	
AD-4532B	172.16.100.2	255.255.0.0
AD-4532B	172.16.100.3	
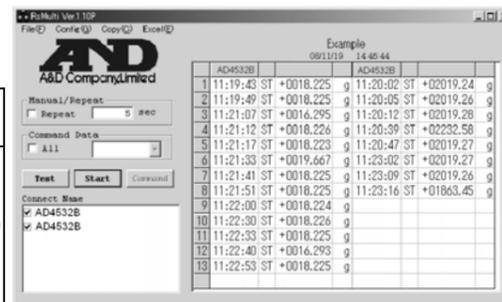
▼ 3.4   Setting the function

Setting the function is set by the function setting.
Refer to the manual for setting the function mode.

Function number Item	Parameter	Setting				
F-43 Communication mode	0	Stream mode				
	1 (Factory setting)	Command mode				
F-44 Unit	0 ~ 15 (Factory setting : 0)	0	No data	6	_mm	12	mmHg
		1	__g	7	_Nm	13	mmH$_2$O
		2	_kg	8	kgf	14	m/s/s
		3	__t	9	__G	15	kgf/cm/cm
		4	__N	10	kgfcm		
		5	_Pa	11	kgfm		

▼ 3.5 Command mode

Using a command for the command mode is the same as for the AD-4532B-04 (RS-232C). Refer to the item of the AD-4532B-04 (RS-232C), in the AD-4532B manual, about the kind of commands.

Example: Data demand and response.

Command : [R] [Cr] [Lf]

Response : [W] [T] [.] [±] [0] [1] [2] [.] [3] [4] [5] [Cr] [Lf]

▼ 4.   The Windows Communication Software WinCT-Plus

WinCT-Plus is the communication software for the A&D weighing devices.
The software can acquire the weight data of weighing instruments, and can control these devices with commands.
The software and the manual can be downloaded from our homepage free of charge.

http://www.aandd.co.jp
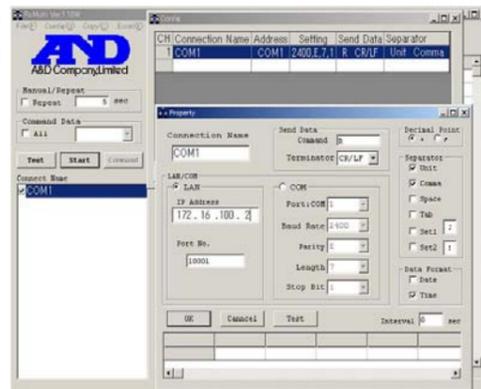
▼ 5.   Changing the IP address

The IP adress of the factory setting is 172.16.100.2.
When changing the IP address, uses the LANTRONIX DeviceInstaller.
The DeviceInstaller can be downloaded free of charge from http://www.lantronix.com/ or   http://www.lantronix.jp/.

A setting sample window of the DeviceInstaller.

DeviceInstaller is a registered trademark of LANTRONIX company.
Excel is a registered trademark of Microsoft company.