TCP54A

iProx RFID Embedded TCP/IP Ethernet Access Controller
for 5,000 users and 50,000 Transaction Records
Dimensions: 101mm x 71mm x 32mm

see http://avea.cc/tcp54asetup.html for setup information

AVEA www.avea.cc

INTRODUCTION

The iProx TCP54A controller is a powerful offline solution for access control and time recording / attendance. It can accept up to 5,000 ID card users and store 50,000 transaction records. Transaction records in offline readers can be downloaded to NET Attendance software easily. Hence, reports can be generated accordingly. An electric strike can be connected. Door lock will be released by authorized cards. The controller's states and card information can be uploaded by the NET Attendance software through the network.

KEYPAD FUNCTIONS

"＊" - Check MEMORY USAGE

Number of registered ID card in reader
Number of transaction records used / stored in reader

"#" - Use in CLOCK mode with Auto IN/OUT Timetable (offline)
Press "#" to override from IN to OUT or vice versa for clocking

POWER FAILURE

In case of a long time power failure, the real time clock will be stopped and incorrect. The LCD display will not show the current time but with a running bar. Records of entrance will not be stored. Clock synchronization is required by powering up the PC and the NET Attendance software. The NET Attendance software will synchronize the clock in iProx automatically.

PCB & WIRING INFORMATION

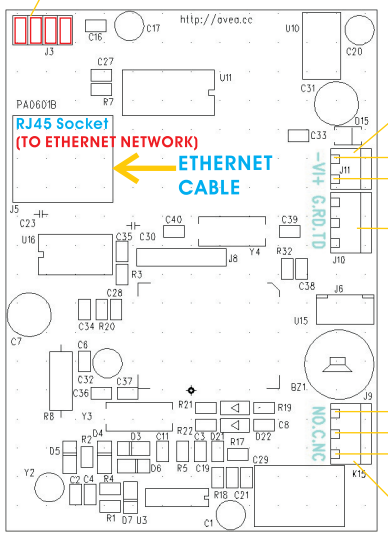
POWER TERMINAL
- Connect to the 12VDC power for the reader

SLAVE TERMINAL
- Connect to a slave reader

RELAY TERMINAL
- SPDT relay output for electric strike control

RJ45 SOCKET
- connect to the ethernet network

POWER THRU ETHERNET CABLE
Insert 4 jumper caps to enable this feature. The power supply can then feed thru the ethernet cable to the unit.



POWER TERMINAL
(9-12V 500mA)

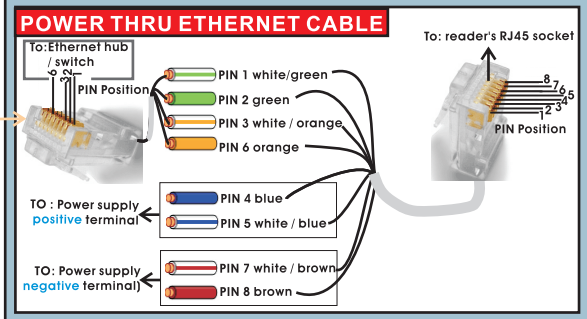
GND (Power supply **negative** terminal)
DC IN (Power supply **positive** termina)

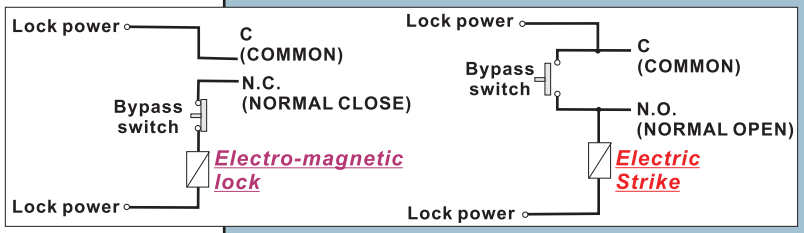
SLAVE TERMINAL
GROUND(G to KS232S' RJ45 socket -PIN3)
DATA FROM SLAVE(RD to KS232S' RJ45 socket - PIN5)
DATA TO SLAVE(TD to KS232S' RJ45 socket -PIN4)

NORMAL OPEN
COMMON
NORMAL CLOSE

RELAY TERMINAL
(TO ELECTRIC STRIKE)

POWER THRU ETHERNET CABLE





NET ATTENDANCE - QUICK START

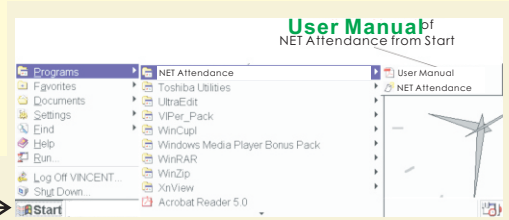
1. Connect **cables** and **power** (see Wiring Instruction)

2. Setup the reader's IP address and parameters (see Reader Setup)

3. Turn on the computer.

4. Download and install the **NET Attendance** software from http://avea.cc/sw/NETTA.zip
   Unzip the file - Execute the installer program NETTA.msi. Just follow the installation instruction to finish the installation. The detailed installation manual for the NET Attendance will be installed automatically into your computer. You can read it by using the Adobe Reader.

5. **Print** and follow the **User Manual** of NET Attendance from *Start*
   For details of NET Attendance's Setup.

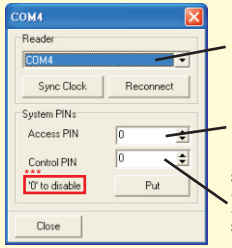


6. **Login** the NET Attendance to start SETUP.

7. Setup the **password** for LOGIN (Password cannot be reversed)

8. Setup the **RFID reader**

9. Setup the **System PIN**



Select the reader

Assign an Access PIN number for entrance (PIN only)
- Set any PIN from" 0" to " 65535"
(Enter PIN number + "#" key)
Set "0"- disable this function

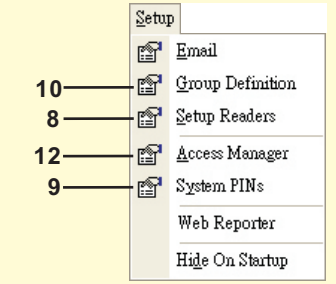
Set the Control PIN to the IP reader
- Protect the reader away from unauthorized access
- Set any PIN from" 0" to " 65535"
Set "0"- disable this function

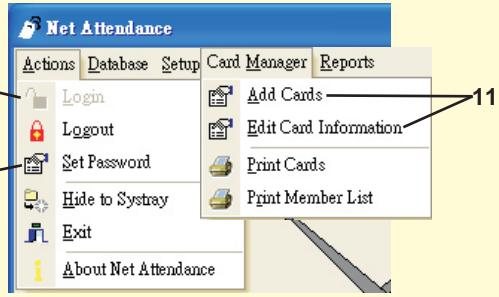
10. Define the **workgroup** for reports

11. **ADD Cards** and enter **Card Information**
    - download the add card file (serial number with the ID card's packing) from
    http://avea.cc/serialno.html

12. **Goto** the **Access Manager**, click ***"PUT"*** to put setting to reader **& click** ***"UPLOAD TO READER"*** to upload card information to reader

*** Please see User Manual of NET Attendance http://avea.cc/spec/net%20attendance.pdf for details of Access Manager setup.





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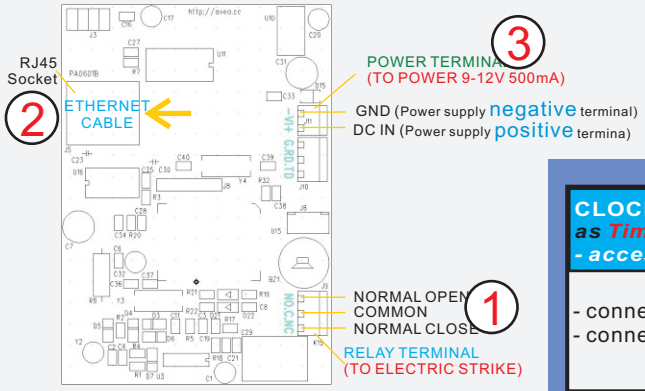
FOUR MODES OF OPERATION - Wiring Instruction

IN Mode

Access Control (Single reader - outside the premises) - for Entrance with or without PIN

In this mode, the unit is installed outside the premises.

1. connect an electric strike to the RELAY TERMINAL
2. connect Ethernet to the Rj45 socket
3. Connect the POWER



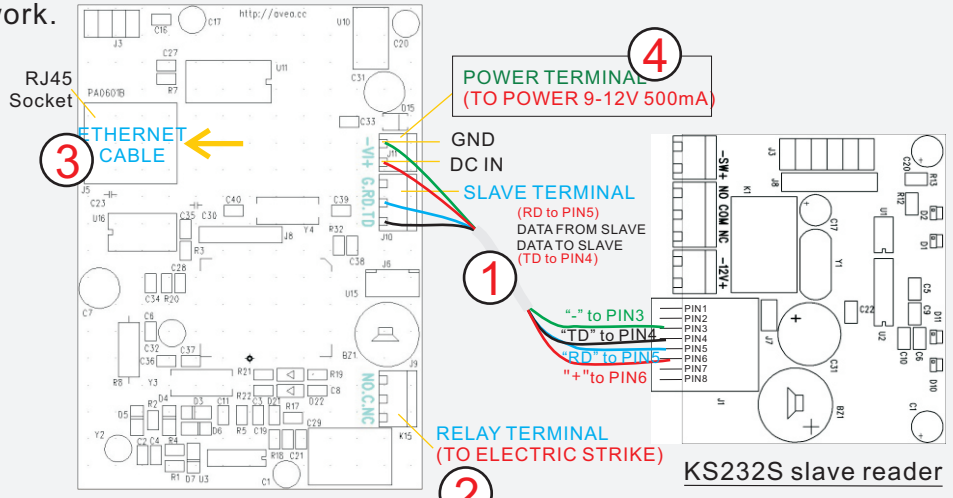
CLOCK Mode :
as Time Clock/ Time Recorder
- access control feature is disabled

- connect power to the POWER TERMINAL
- connect Ethernet to the RJ45 socket

OUT Mode + Slave

Access Control (Dual readers)
TCP54A as MASTER for exit + KS232S as SLAVE for entrance

In this mode, the unit is installed inside the premises as the master. A KS232S is installed outside the premises as the slave unit. An electric strike is connected to the master inside the premises. Authorized cards will release the strike. The controller's states and card information can be uploaded by the NET Attendance software through the ethernet network.



TCP54A reader

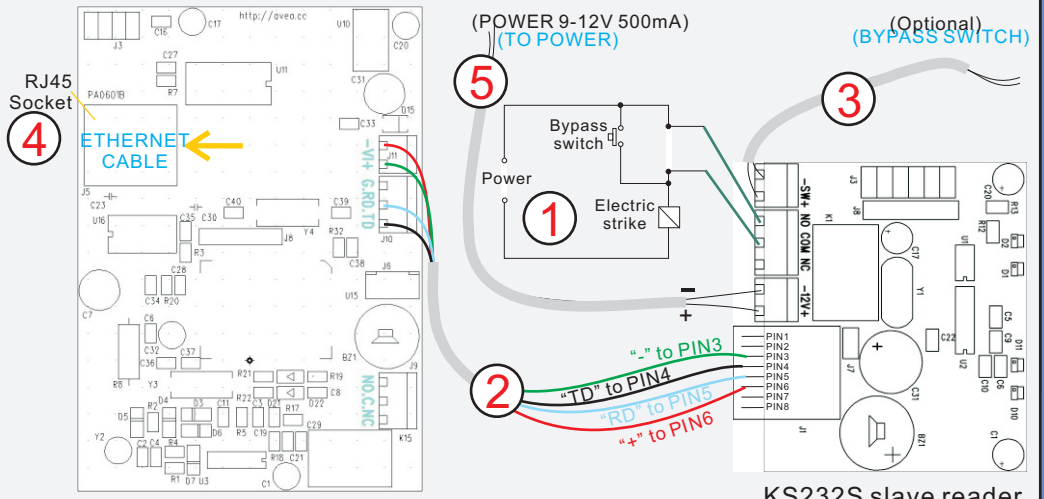
KS232S slave reader

*** Remove all jumpers on slave

IN Mode + Slave

Access Control (Dual readers)
TCP54A as MASTER for entrance + KS232S as SLAVE for exit

In this mode, the unit is installed outside the premises as the master. A KS232S is installed inside the premises as the slave unit. An electric strike and a bypass switch are connected to the slave and are installed inside the premises. Pressing the bypass switch or presenting the authorized cards will release the strike.



TCP54A reader

KS232S slave reader

*** Remove all jumpers on slave

TCP54A READER SETUP

To enter **configuration mode**: hold the '*' key while applying the power to the reader. 'CONF' will be shown on the reader. Place an ID card over the reader will register a 'MASTER' card to configuration later without power off the reader. By presenting the 'MASTER card to the reader, it will enter the configuration mode directly.

Press '✱' to cycle the parameters to be configured:

Parameter	Description	Default
IP	IP address of the reader itself	192.168.1.234
Gate	Gateway IP address	192.168.1.1
Net	Netmask	255.255.255.0
Port	Port number	1668

To edit the parameter, press '#' key. '.' is entered by pressing '#' key, i.e. use enter 192.168.1.123, the key sequence is 192#168#1#123, then press '#' key to confirm entry or '*' key to cancel the operation.