INFINITY
TIME AND ATTENDANCE SYSTEM
Hardware

Contents:

Page

v11 issue 1 attendance

t9-ESS office terminal
supporting biometric /
proximity / keypad options.

v11 issue 1 attendance introdution

A brief description of the v10 attendance PCB (issue 3)

The v10 attendance PCB is based on over 20 years development and a production run in excess of 11,000 attendance terminals!

In simple terms, the memory of the terminal is divided into three sections:

1. The firmware program that controls the operation of the PCB.

a. The firmware is stored in FLASH memory which means that it can easily be changed, (via the software), in the event of a new release.

2. The 'name table' that contains the list of people that can use the terminal.

a. The 'name table' contains various information fields relating to an individual, ie: badge number, unique ID, name (16 character), plus other flags. Depending on the configuration of the system, some information is not always required in the 'name table': badge number on a bio terminal is a good example.

b. The maximum number of people that can use an attendance terminal is 5250.

c. The maximum number of people able to use the bio function on an attendance terminal is 1500.

d. The name length is always truncated to 16 characters.

3. The 'storage table' that contains the bookings and events records.

a. The 'storage table' contains archived bookings and events records. Remember when using the enquiry agent function for enhanced employee self service, the storage table may not be in use and that all archive storage may held in the SQL database, (see enquiry agent notes).

b. In local mode, over 9000 records can be held in the 'storage table'. In reality, with the roll call service polling every 10 seconds there is typically no more that 10 records held in memory at any one time. If the polling stops, the memory is not allowed to 'wrap-round', displaying a 'Memory full' message on the LCD until the poll has been completed.

v11 issue 1 attendance installation instructions

1. What do I require to install this equipment...

- Phillips or Flat head screwdriver
- Small Phillips head screwdriver
- Cable ties
- Electric drill
- Masonry drill bit for 8s screws
- Rawlplugs for 8s screws
- 4 x 8s screws to fit head of above screwdriver

- Spirit level
- Tape measure
- RJ45 Socket within 1 metre of site of terminal
- Minimum 1 metre Patch lead
- 13amp socket within 2 metres of site of terminal
- Plastic Trunking (as required)

2. Positioning on the wall...

www.netr.co.uk - (0191) 414 4241 - sales@netr.co.uk
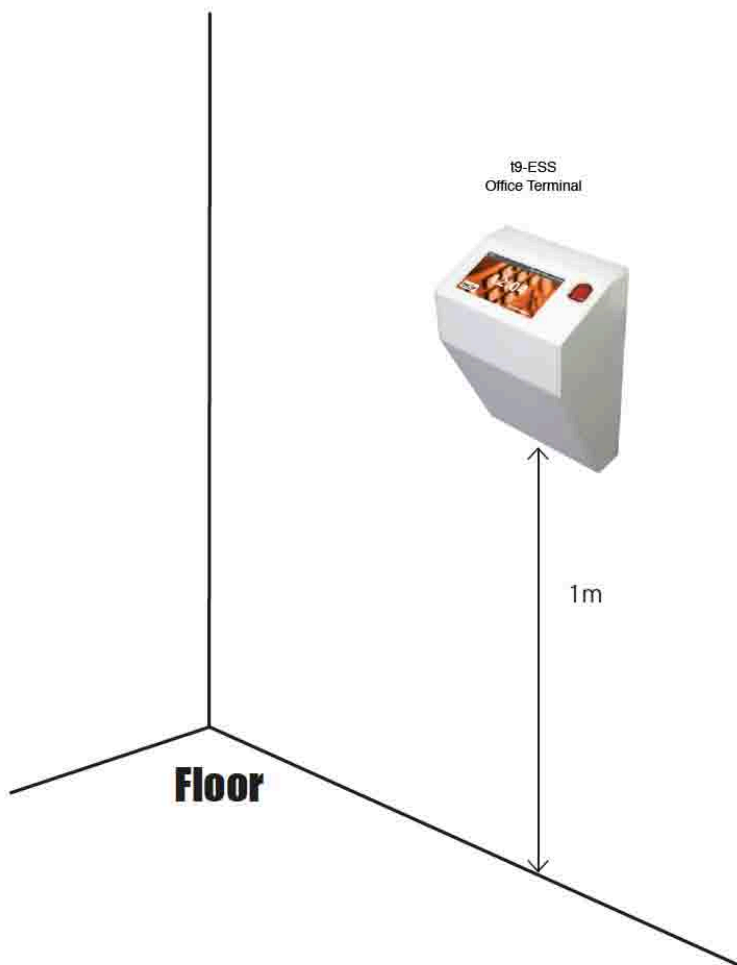
3. Communications & power...

- Dedicated unswitched fuse spur with 3A fuse within 2m of the terminal
- Network port (CAT 5) within 2m of the terminal

4. Setting up the IP address

1. Press anywhere on the screen
2. Press the menu key
3. Press configuration
4. Enter the code 9876 then press tick
5. Press communications
6. Press network
7. Enter the IP address then tick to confirm
8. Press the back button three times to go back to the main screen

v11 issue 1 attendance description

A brief description of the v10 attendance menu structure

The menu system of the attendance terminal is divided into 3 sections:

1. Status menu (not usually password protected)

a. The status menu enables the user/technician to check the various setting of the terminal. These include:

    a.i. Status

        ai.1. Firmware Version

    a.ii. Communication

        aii.1. Terminal IP

        aii.2. Enquiry IP

        aii.3. Subnet Mask

        aii.4. Gateway

        aii.5. MAC Address

        aii.6. Network Status

    a.iii. Biometric

        aiii.1. Device Type

    a.iv. Capacity

        aiv.1. Records

        aiv.2. Employees

        aiv.3. Bell Times

        aiv.4. Bio Templates

    a.v. Storage

        av.1. Employees

        av.2. Bookings

        av.3. Bell Times

        av.4. Powerlog

        av.5. Bio Templates

    a.vi. System

        avi.1. Reader Type

        avi.2. Terminal Description

        avi.3. Support Attendance

        avi.4. Relay Dwell (Seconds)

   avi.5. Booking Trips Relay

        avi.6. Repeat Booking (Minutes)

2. Supervisor menu (usually password protected)

a. The supervisor menu enables the supervisor to complete the following:

    ai. Enrolment

    a.ii. USB Sync

    a.iii. USB Recovery

3. Configuration menu (usually password protected)

a. The configuration menu enables the technician to complete the following:

    a.i. Time

    a.ii Date

    a.iii. Communication

        a.iii.1. Current Settings

        a.iii.2. USB

        a.iii.3. Network

    a.iv. Badge Test

    a.iv. Relay Test

    a.iv. Advanced

        aiv.1. Restart Device

        aiv.2. Clear device storage data

        aiv.3. Reset device to factory

    a.v. USB

v11 issue 1 attendance datasheet
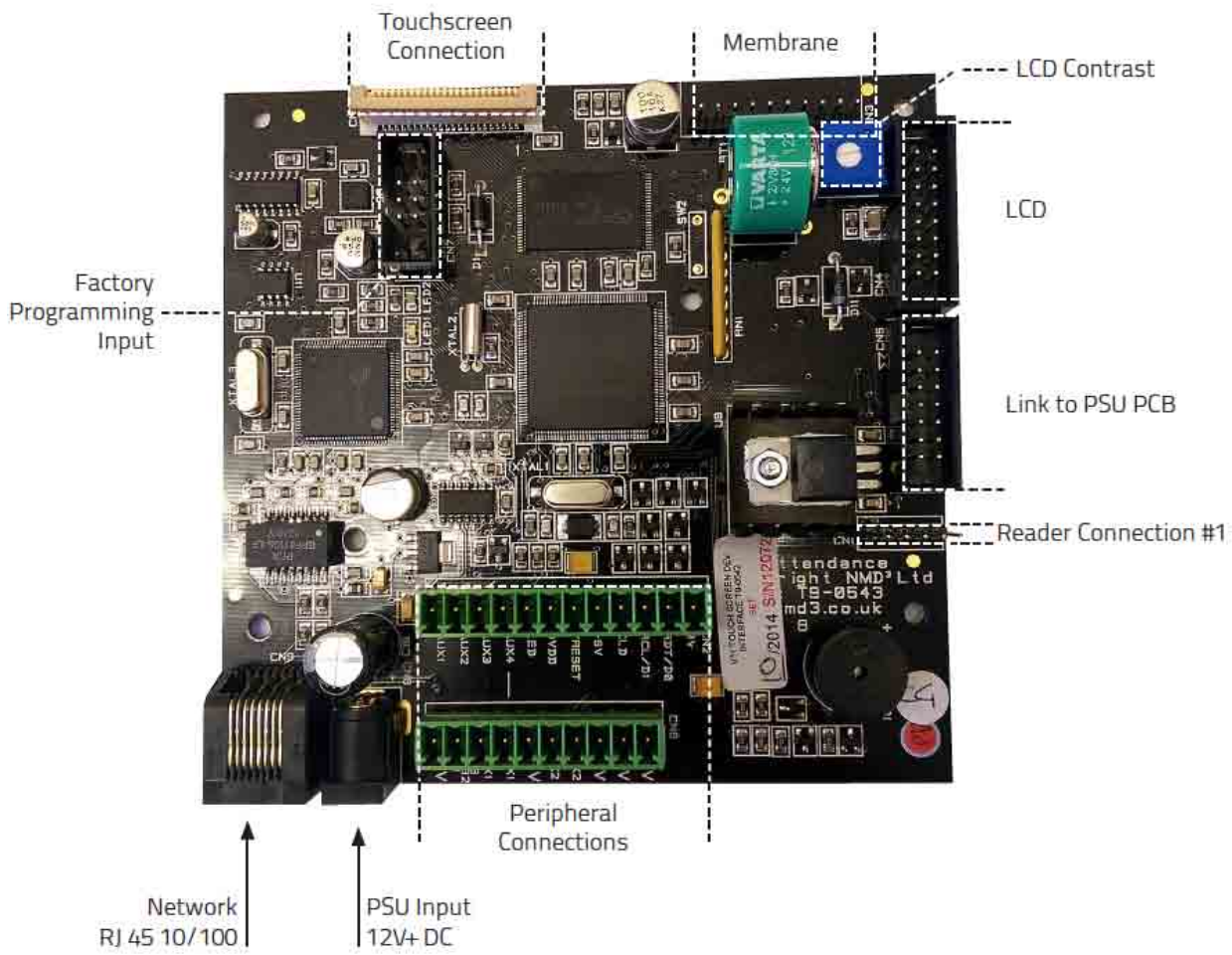
v10 issue 3 attendance

t9-INDS
Weatherproof Industrial Terminal

t9-ESS
Biometric Terminal

v10 issue 3 attendance introdution

A brief description of the v10 attendance PCB (issue 3)

The v11 attendance PCB is the latest iteration of Infinity hardware incorporating touchscreen technology and fully supports the employee self service function.

In simple terms, the memory of the terminal is divided into three sections:

1. The firmware program that controls the operation of the PCB.

a. The firmware is stored in FLASH memory which means that it can easily be changed, (via the software), in the event of a new release.

2. The 'name table' that contains the list of people that can use the terminal.

a. The 'name table' contains various information fields relating to an individual, ie: badge number, unique ID, name (16 character), plus other flags. Depending on the configuration of the system, some information is not always required in the 'name table': badge number on a bio terminal is a good example.

b. The maximum number of people that can use an attendance terminal is 5250.

c. The maximum number of people able to use the bio function on an attendance terminal is 1500.

d. The name length is always truncated to 16 characters.

3. The 'storage table' that contains the bookings and events records.

a. The 'storage table' contains archived bookings and events records. Remember when using the enquiry agent function for enhanced employee self service, the storage table may not be in use and that all archive storage may held in the SQL database, (see enquiry agent notes).

b. In local mode, over 9000 records can be held in the 'storage table'. In reality, with the roll call service polling every 10 seconds there is typically no more that 10 records held in memory at any one time. If the polling stops, the memory is not allowed to 'wrap-round', displaying a 'Memory full' message on the LCD until the poll has been completed.

v10 issue 3 attendance installation instructions

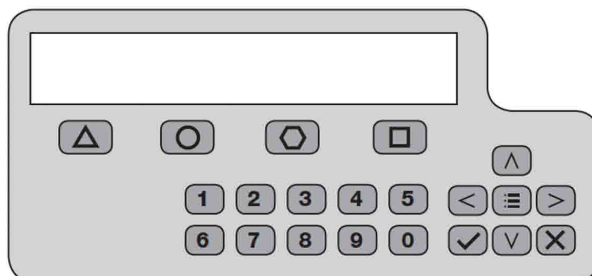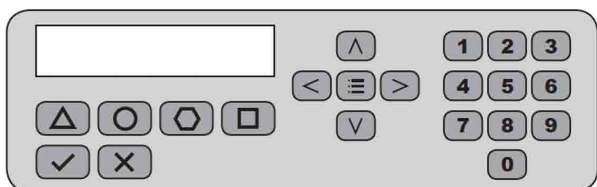## 1. What do I require to install this equipment...

- Phillips or Flat head screwdriver
- Small Phillips head screwdriver
- Cable ties
- Electric drill
- Masonry drill bit for 8s screws
- Rawlplugs for 8s screws
- 4 x 8s screws to fit head of above screwdriver

- Spirit level
- Tape measure
- RJ45 Socket within 1 metre of site of terminal
- Minimum 1 metre Patch lead
- 13amp socket within 2 metres of site of terminal
- Plastic Trunking (as required)

2. Positioning on the wall...

t9-INDS
Weatherproof Industrial Terminal

t9-ESS
Office Terminal

1.6m

1m

Floor

3.
Communications & power...

4.
Setting up the IP address

How to set the I.P Address:

Display shows

1. Press the List key once — x 1 — 1.0.0 t9 10.4.4 Status

2. Press the down arrow key twice — x 2 — 3.0.0 Configuration

3. Press the tick once — x 1 — 3.0.0 Code:_

4. Press the following in the same sequence twice

   9 8 7 6 — 3.0.0 Code: xxxx

5. Press the green tick once — x 1 — 3.1.0 Time & date

6. Press the down arrow key once — x 1 — 3.2.0 Communication

How to set the I.P Address:

Display shows

7. Press the green tick once — x 1 — Comms type: Network

8. Press the green tick once — x 1 — Terminal IP 192.168. 1. 70

9. Enter the desired IP address

10. Press the green tick once — x 1 — Save Changes Accept/Reject

11. Press the green tick once — x 1

12. Finally, press the red X key twice to return to the time & date. Your terminal is now configured for your network — x 2

v10 issue 3 attendance description

A brief description of the v10 attendance menu structure

The menu system of the attendance/jobv costing terminal is divided into 3 sections:

1. Status menu (not usually password protected)

a. The status menu enables the user/technician to check the various setting of the terminal. These include:

    a.i. Communication Settings

        a.i.1. Network/USB/GPRS

        a.i.2. Terminal IP

        a.i.3. Enquiry IP

            ai.3.a. Subnet Mask

            ai.3.b. Default Gateway

        a.i.3. MAC address

    a.ii. Memory Settings

        aii.1. Memory in use by employees ('name table')

        aii.2. Memory in use by bookings ('storage table)

        aii.3. Memory in use by bell times

    a.iii. System Settings

        aiii.1. Biometric reader status

        aiii.2. Reader type

        aiii.3. Terminal description

        aiii.4. Power log

        aiii.5. Relay dwell

        aiii.6. 'booking trips relay' flag

        aiii.7. Repeat booking duration

2. Supervisor menu (usually password protected)

a. The supervisor menu enables the supervisor to complete the following:

    a.i. New enrolment

    a.ii. All enrolment

    a.iii. USB Sync

    a.iv. USB Recovery

A brief description of the v10 attendance menu structure

The menu system of the attendance/jobv costing terminal is divided into 3 sections:

3. Configuration menu (usually password protected)

a. The configuration menu enables the technician to complete the following:

a.i. Set the time and date

a.i.1. (discuss MAC address configuration).

Refer to IEEE network allocation at: http://standards.ieee.org/develop/regauth/oui/public.html

a.ii. Set communication method: Network/GPRS/USB

a.iii. Badge test

a.iv. Relay test

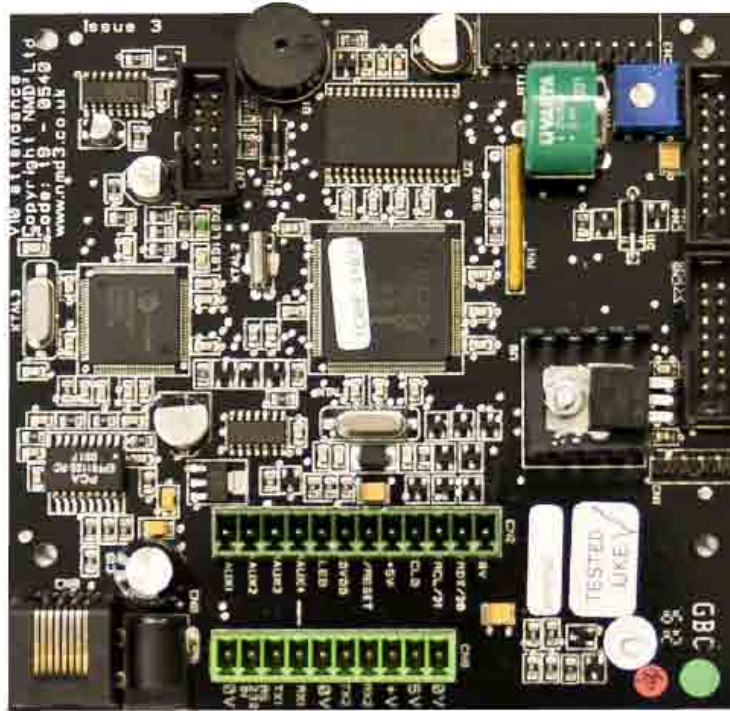a.v. Terminal reset

a.vi. USB settings:

a.vi.1. Terminal ID

a.vi.2. Terminal Upgrade
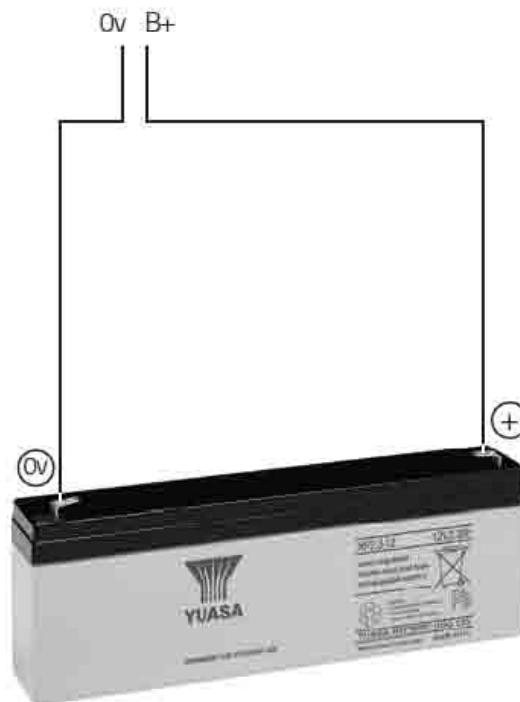
v10 issue 3 attendance datasheet

Membrane

LCD Contrast

LCD

Factory
Programming
Input

Link to PSU PCB

Reader Connection #1

Peripheral
Connections

Network
RJ 45 10/100

PSU Input
12V+ DC
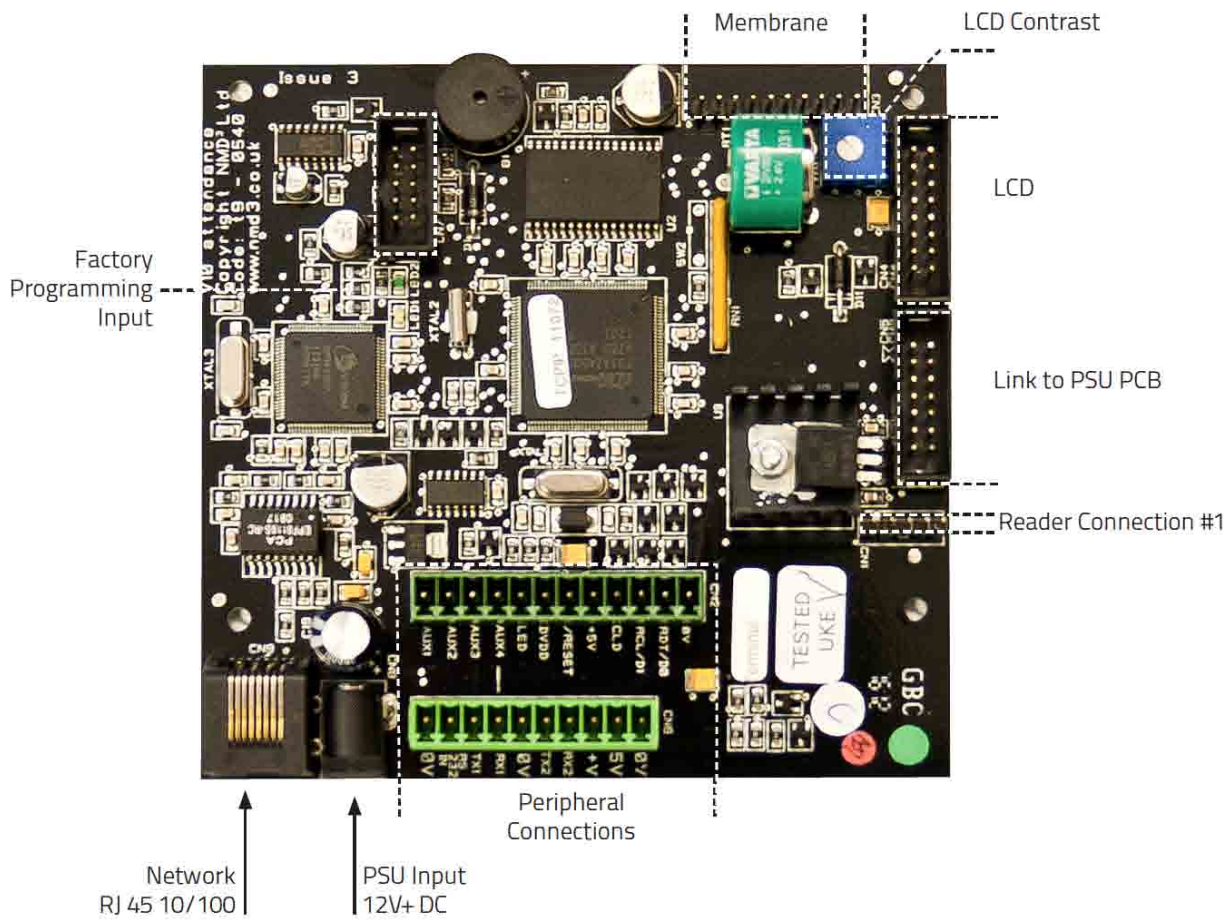
v10 issue 3 attendance datasheet
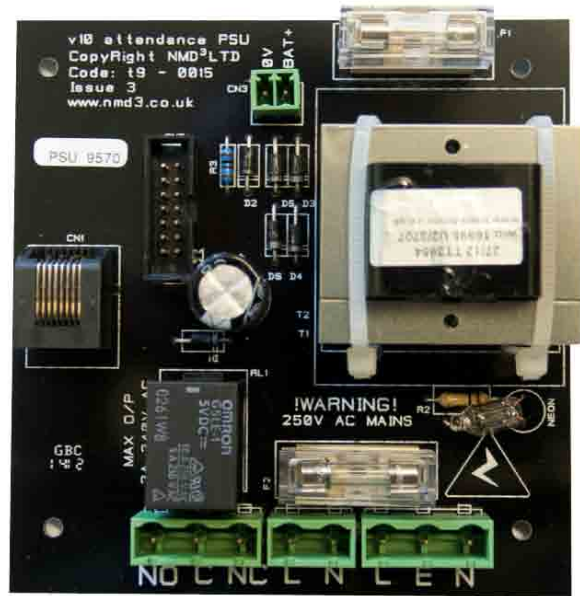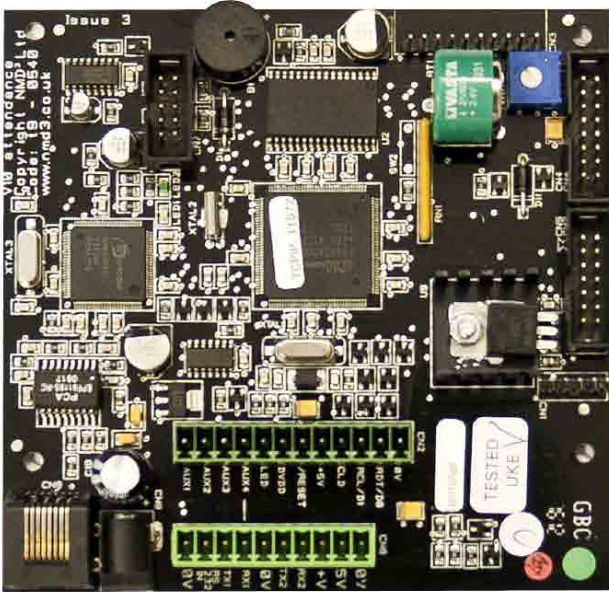## *Battery Backup*

0v   B+

Battery must be 12v
Terminal draws no more than
0.5 Amps.

For Example:
12v 6Amp/hour battery = 12
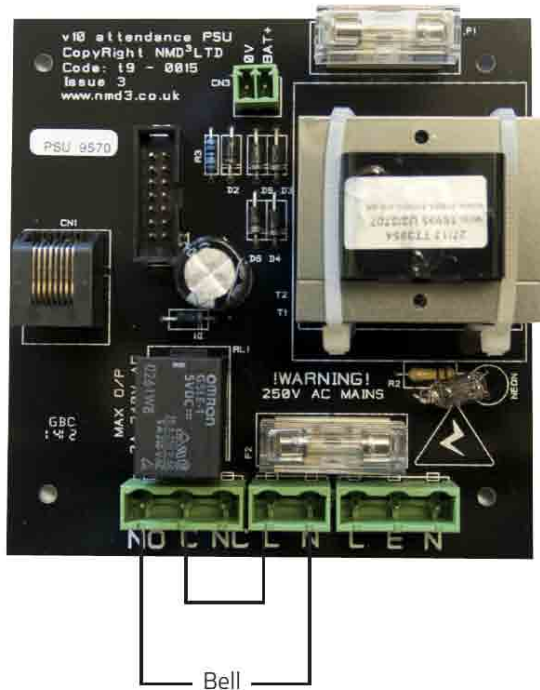hours battery backup

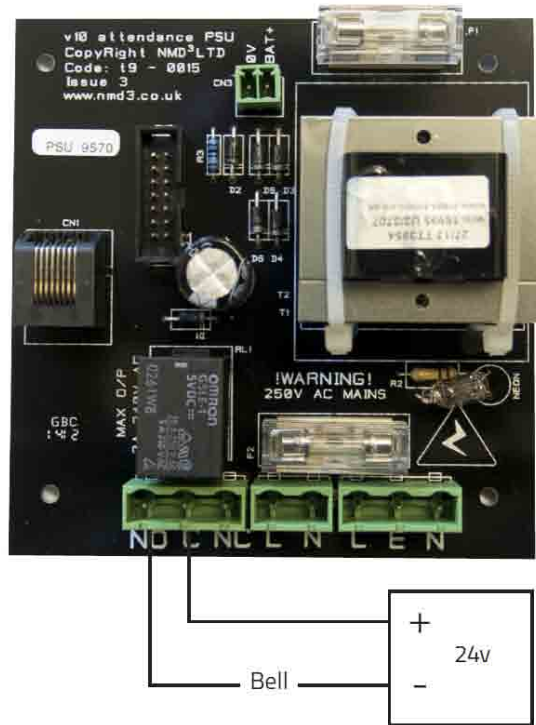# v10 issue 3 attendance datasheet

Internal Power Supply

v10 issue 3 attendance datasheet
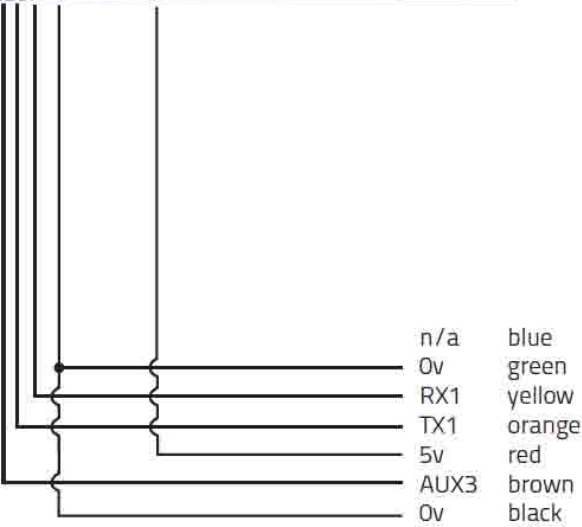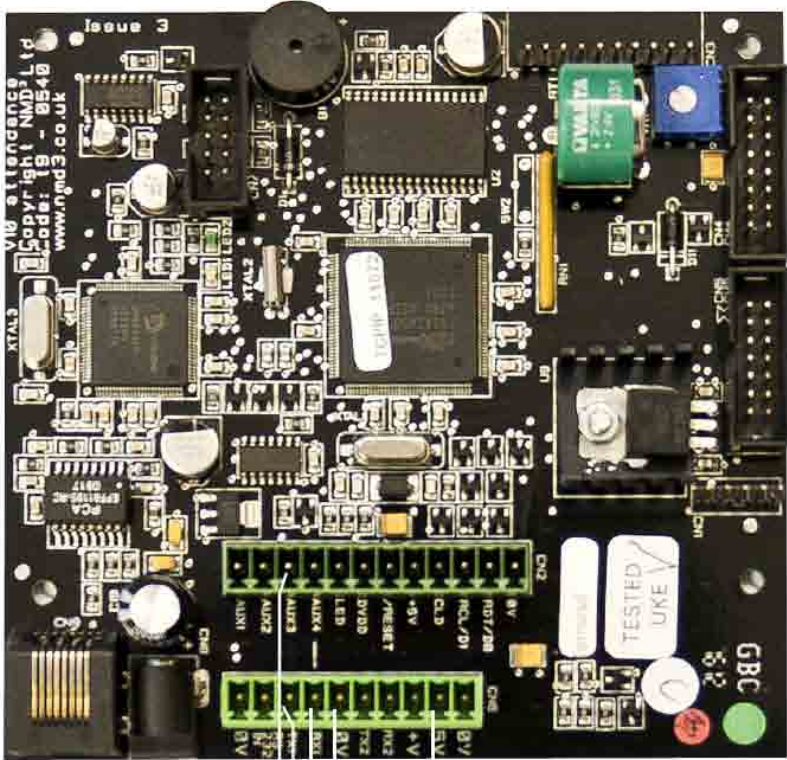## *Wiring of internal power supply board to a bell*

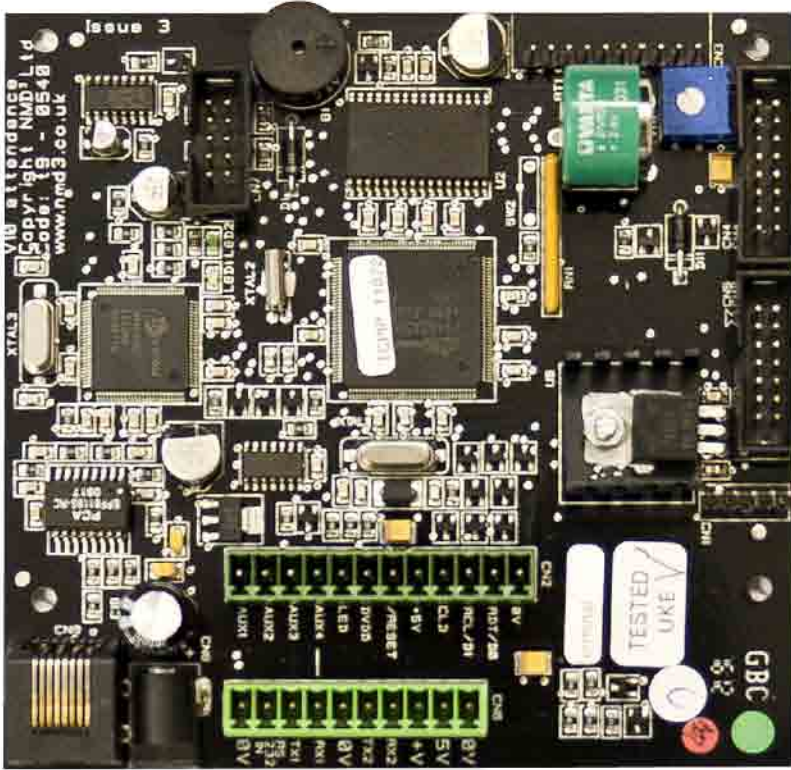Without external power supply

With external power supply

v10 issue 3 attendance datasheet

USB Connections

VDrive2 from Vinculum

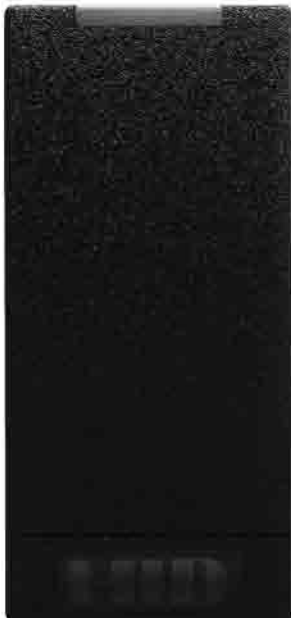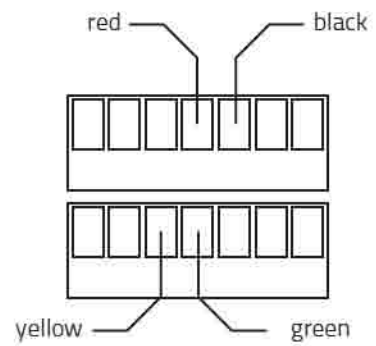|	
n/a	blue
0v	green
RX1	yellow
TX1	orange
5v	red
AUX3	brown
0v	black

v10 issue 3 attendance datasheet
iCLASS HID reader

Please note that
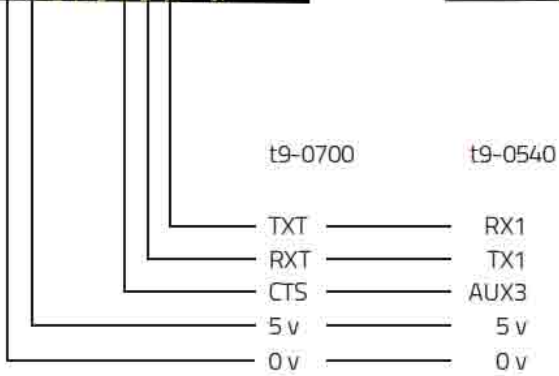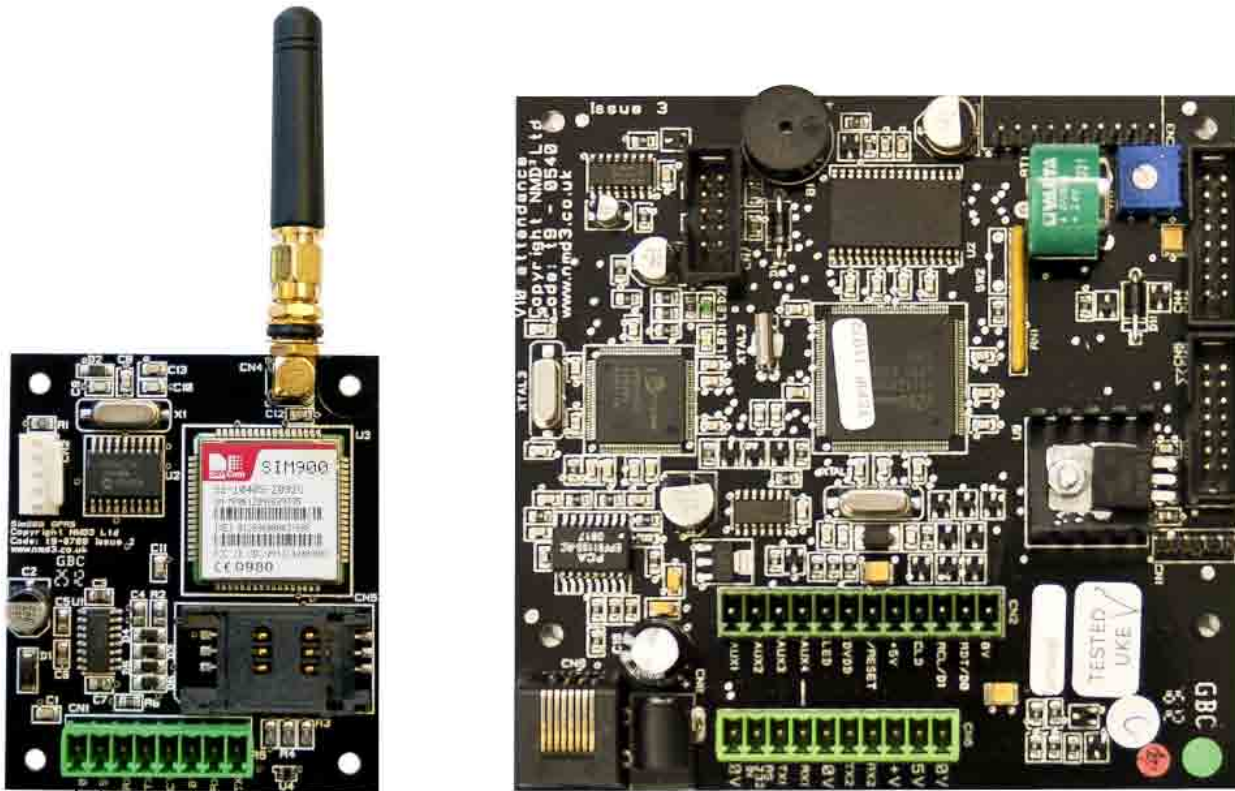the badge source in
terminal settings must be
set to Weigand.

t9-0540   iClassR10

0v	———	black
RTD/D0	———	green
RCL/D1	———	yellow
+v	———	red

v10 issue 3 attendance datasheet

t9-0700 GPRS module

t9-0700		t9-0540
TXT	————	RX1
RXT	————	TX1
CTS	————	AUX3
5 v	————	5 v
0 v	————	0 v

v10 issue 3 attendance datasheet
Wireless

Aerial output

0v
v+

Aerial output

Cat5 cable to t9-0540

Aerial output
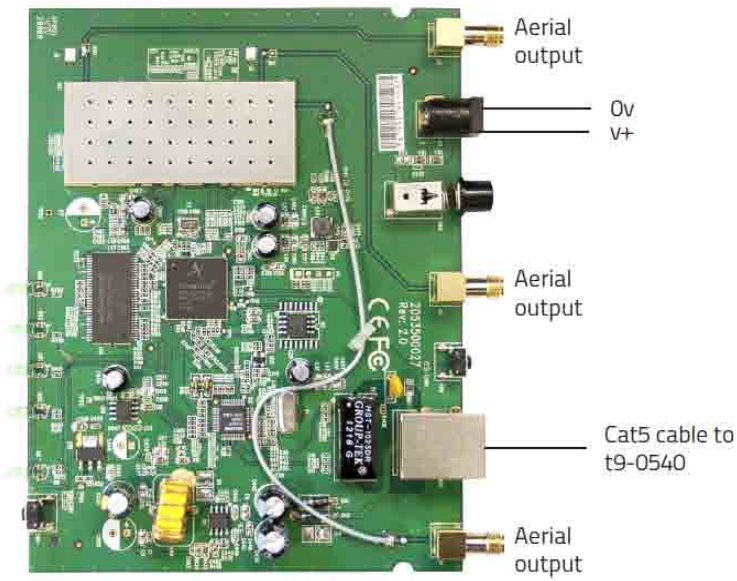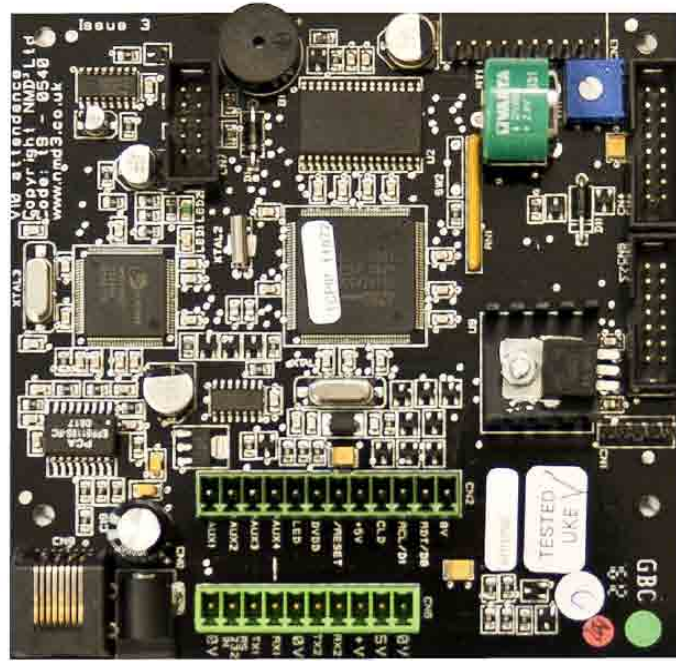
v10 issue 3 attendance datasheet

Internal Secugen reader

Blue = TX2

Yellow = RX2

Brown = Reset
Black = 0 volts

Orange = DVDD
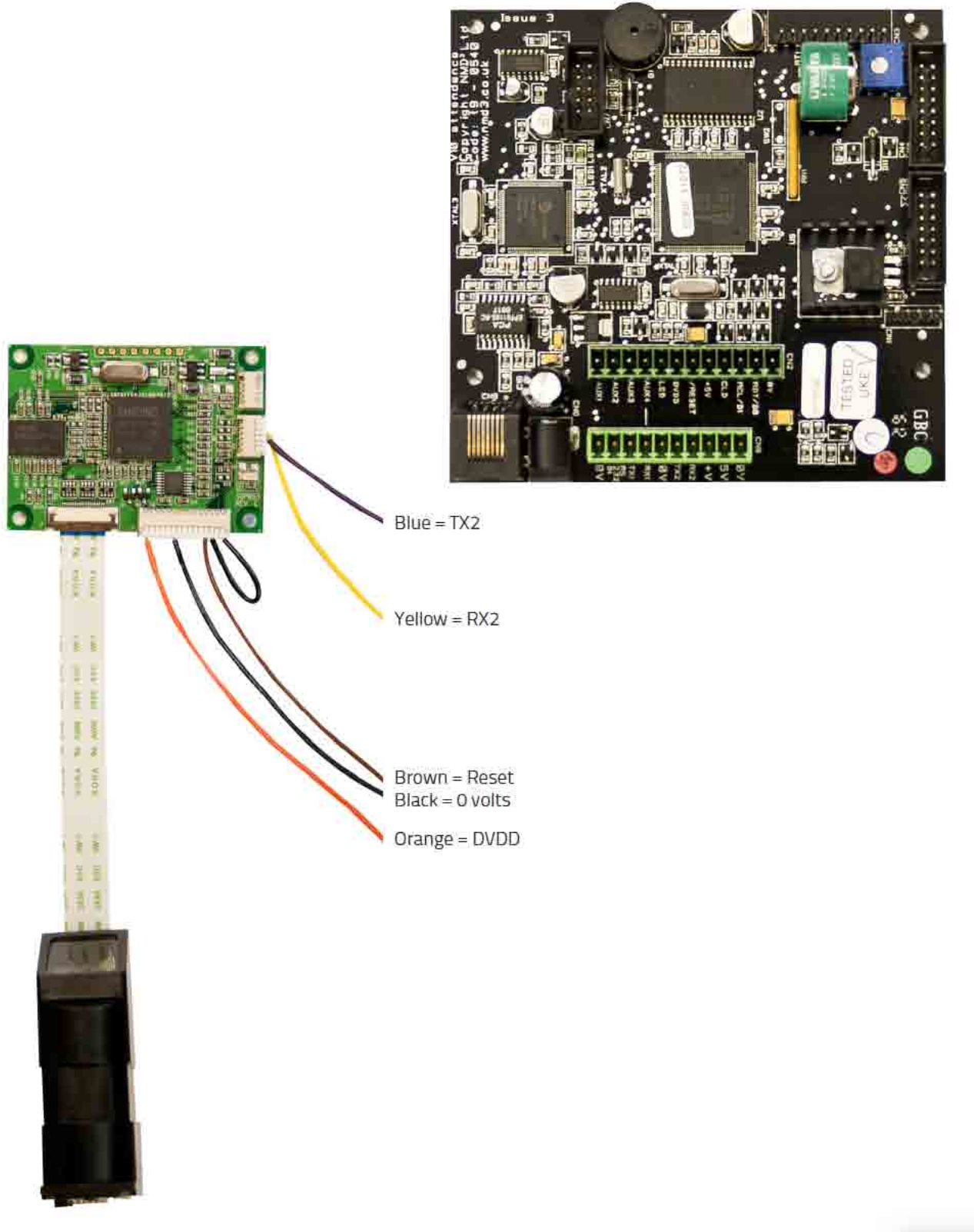
v10 issue 3 attendance datasheet

t9-0240 proximity reader

t9-0540		t9-0240
0v	————	Conn1
5v	————	Conn2
CLD	————	Conn5
RCL/D1	————	Conn6
RDT/D0	————	Conn7
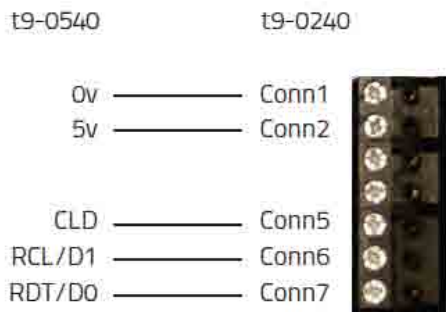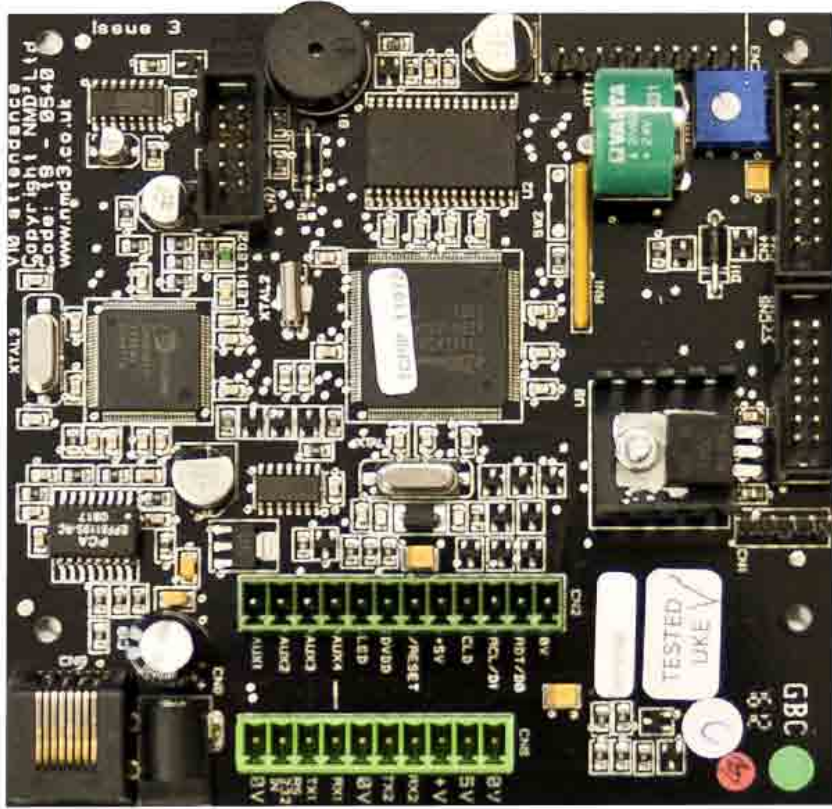
v10 issue 4 access control pcb

t9-ACCS
Access Terminal

v10 issue 4 access control pcb introduction

A brief description of the v10 access control PCB (issue 3)

The v10 access PCB is based on over 7 years development and a production run in excess of 1,000 access terminals!

In simple terms, the memory of the terminal is divided into four sections:

1. The firmware program that controls the operation of the PCB.

a. The firmware is stored in FLASH memory which means that it can easily be changed, (via the software), in the event of a new release. New firmware is posted in the download area of the timeware® community site www.timeware.org.

2. The access and free zone patterns' for this terminal.

3. The 'name table' that contains the list of people that can use the terminal.

a. The 'name table' contain various information fields relating to an individual, ie: badge number, unique ID, name (16 character), valid access patterns, plus other flags. Depending on the configuration of the system, some information is not always required in the 'name table': badge number on a bio terminal is a good example.

b. The maximum number of people that can use an access control terminal is 5250.

c. The maximum number of people able to use the bio function on an attendance/job costing terminal is 1500.

d. The name length is always truncated to 16 characters.

4. The 'storage table' that contains the bookings and events records.

a. Over 9500 records can be held in the 'storage table'. In reality, with the roll call service polling every 10 seconds there is typically no more that 10 records held in memory at any one time. If the polling stops, the memory is allowed to 'wrap-round', deleting the oldest records.
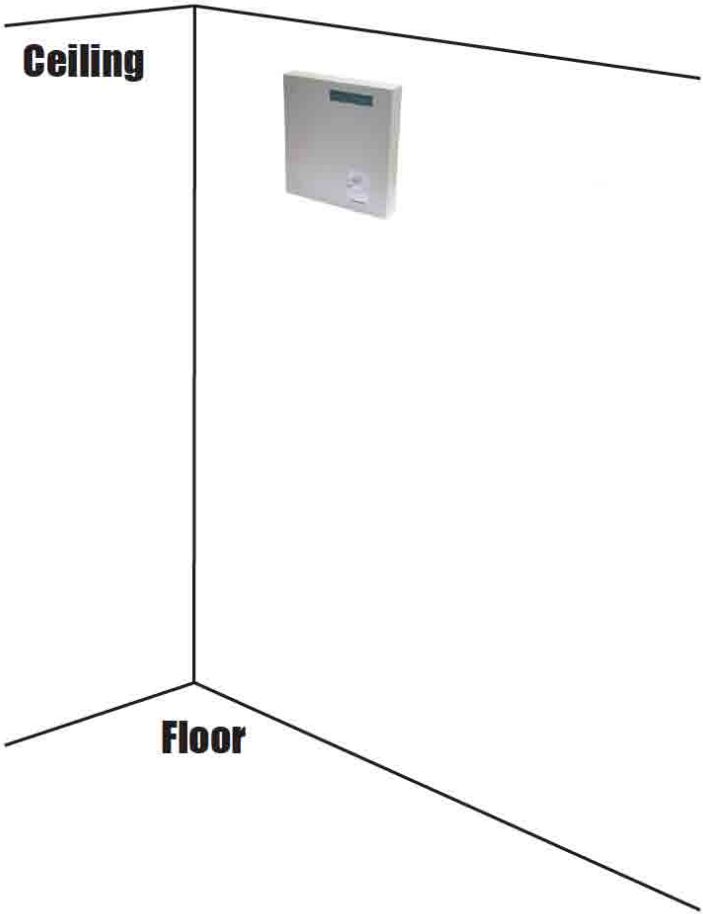
Please remember to check the latest firmware versions in the download area of the timeware® community site on a regular basis.

v10 issue 4 access installation instructions

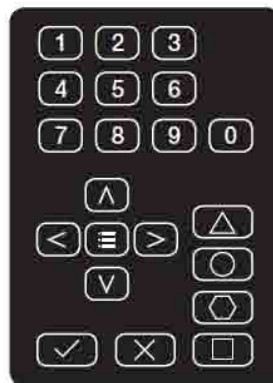## 1. What do I require to install this equipment...

- Phillips or Flat head screwdriver
- Small Phillips head screwdriver
- Cable ties
- Electric drill
- Masonry drill bit for 8s screws
- Rawlplugs for 8s screws
- 4 x 8s screws to fit head of above screwdriver

- Spirit level
- Tape measure
- RJ45 Socket within 1 metre of site of terminal
- Minimum 1 metre Patch lead
- 13amp socket within 2 metres of site of terminal
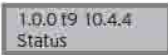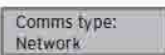- Plastic Trunking (as required)

2. Positioning on the wall...

Ceiling

Floor

3.
Communications & power...

4.
Setting up the IP address

How to set the I.P Address:

Step	Action	Key	Display shows
1.	Press the List key once	☰ x 1	1.0.0 t9 10.4.4 Status
2.	Press the down arrow key twice	V x 2	3.0.0 Configuration
3.	Press the tick once	✓ x 1	3.0.0 Code:_
4.	Press the following in the same sequence twice	9 8 7 6	3.0.0 Code: xxxx
5.	Press the green tick once	✓ x 1	3.1.0 Time & date
6.	Press the down arrow key once	▽ x 1	3.2.0 Communication

How to set the I.P Address:

Step	Action	Key	Display shows
7.	Press the green tick once	✓ x 1	Comms type: Network
8.	Press the green tick once	✓ x 1	Terminal IP 192.168. 1. 70
9.	Enter the desired IP address		
10.	Press the green tick once	✓ x 1	Save Changes Accept/Reject
11.	Press the green tick once	✓ x 1	
12.	Finally, press the red X key twice to return to the time & date. Your terminal is now configured for your network	✕ x 2	

v10 issue 4 access control pcb description

A brief description of the v10 access control PCB (issue 3) (continued)

The menu system of the access control terminal is divided into 3 sections:

1. Status menu (not usually password protected)

a. The status menu enables the user/technician to check the various setting of the terminal. These include:

    a.i. Communications settings

        a.i.1. Network/USB/GPRS

        a.i.2. Terminal IP

        a.i.3. Enquiry IP

            a.i.3.a. Subnet mask

            a.i.3.b. Default gateway

        a.i.4. MAC address

    a.ii. Memory settings

        a.ii.1. Memory in use by employees ('name table')

        a.ii.2. Memory in use by bookings ('storage table)

        a.ii.3. Memory in use by access patterns

        a.ii.4. Memory in use by free zones

    a.iii. System settings

        a.iii.1. Biometric reader status

        a.iii.2. Reader type

        a.iii.3. Terminal description

        a.iii.4. Power log

        a.iii.5. Sounder status

        a.iii.6. Relay duration

        a.iii.7. Readers 1 & 2 and relays 1 & 2 configuration

        a.iii.8. Anti-passback status

        a.iii.9. Door ajar status

A brief description of the v10 access control PCB (issue 3) (continued)

2. Supervisor menu (usually password protected)

a. The supervisor menu enables the supervisor to complete the following:

a.i. New enrolment (not normally used)

a.ii. All enrolment (not normally used)

a.iii. USB Sync (not normally used)

a.iv. USB Recovery (not normally used)

3. Configuration menu (usually password protected)

a. The configuration menu enables the technician to complete the following:

a.i. Set the time and date

a.i.1. (discuss MAC address configuration). Refer to IEEE network allocation at: http://standards.ieee.org/develop/regauth/oui/public.html

a.ii. Set communication method: Network/GPRS/USB

a.iii. Badge Test

a.iv. Relay test (1 & 2)

a.v. Terminal reset

a.vi. USB settings:

a.vi.1. Terminal ID

a.vi.2. Terminal upgrade

v10 issue 4 access control pcb datasheet

v10 issue 4 access control pcb datasheet
USB Connection
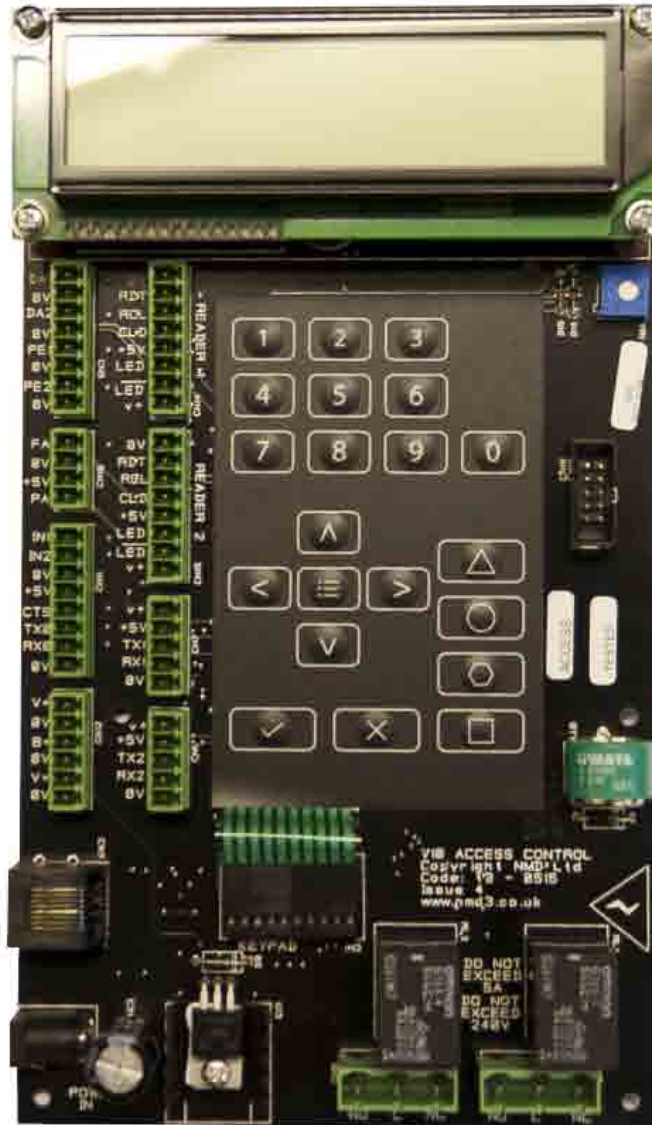
VDrive2 from Vinculum

VDrive2   t9-0515

blue	——————	n/a
green	——————	0v
yellow	——————	RX0
orange	——————	TX0
red	——————	5v
brown	——————	CTS
black	——————	0v

v10 issue 4 access control pcb datasheet

Battery Backup

v10 issue 4 access control pcb datasheet

t9-0100 proximity connection

t9-0100		t9-0515
Conn1	———	0v
Conn2	———	5v
Conn5	———	CLD
Conn6	———	RCL/D1
Conn7	———	RDT/D0

v10 issue 4 access control pcb datasheet
t9-0360 biometric connection

t9-0360		t9-0515
Conn1	————	0v
Conn2	————	5v
Conn5	————	CLD
Conn6	————	RCL/D1
Conn7	————	RDT/D0
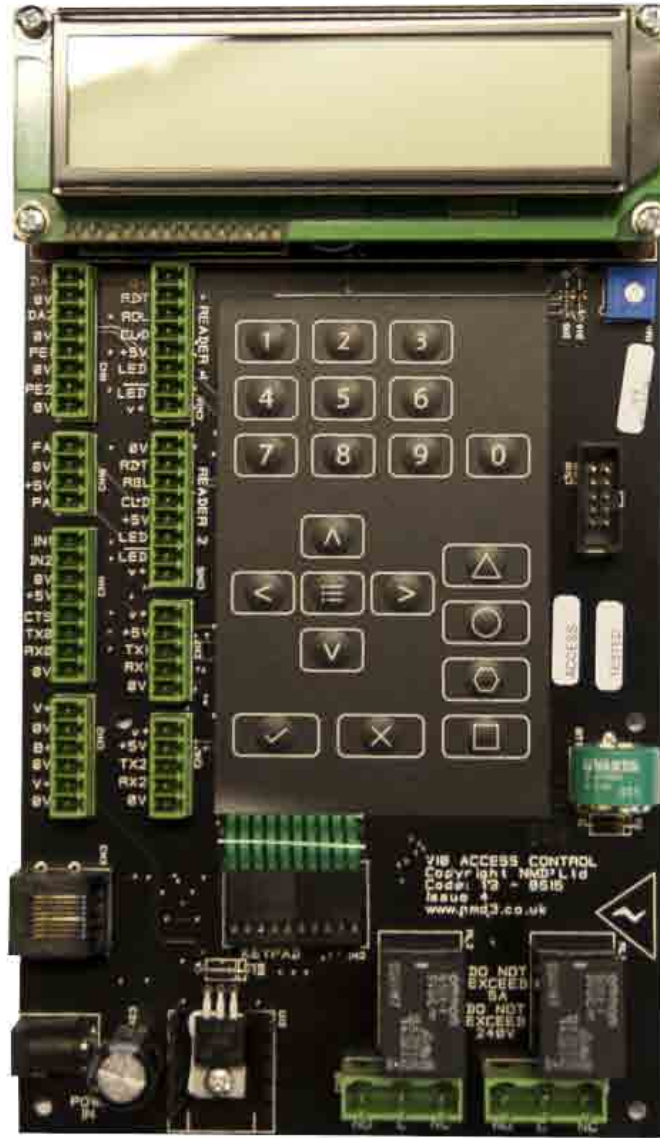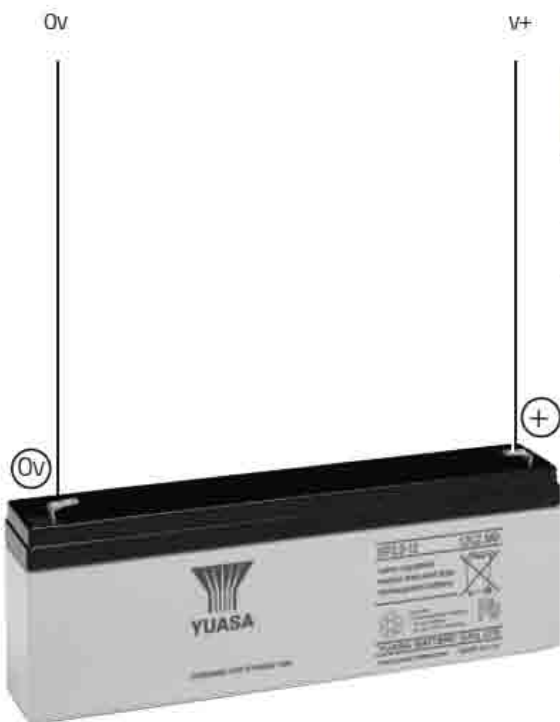
v10 issue 4 access control pcb datasheet
Single reader mag lock connection

v10 issue 4 access control pcb datasheet
GPRS

t9-0700		t9-0515
TXT	———	RX1
RXT	———	TX1
CTS	———	AUX3
5 v	———	5 v
0 v	———	0 v

v10 issue 4 access control pcb datasheet
Wireless

Aerial
output

0v
V+

Aerial
output

Cat5 cable to
t9-0515

Aerial
output
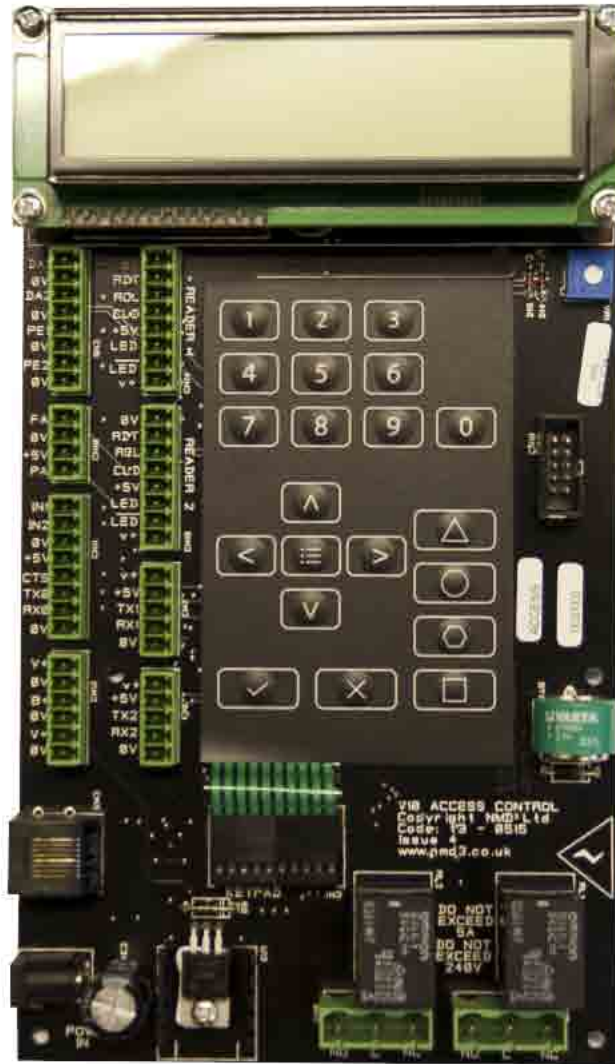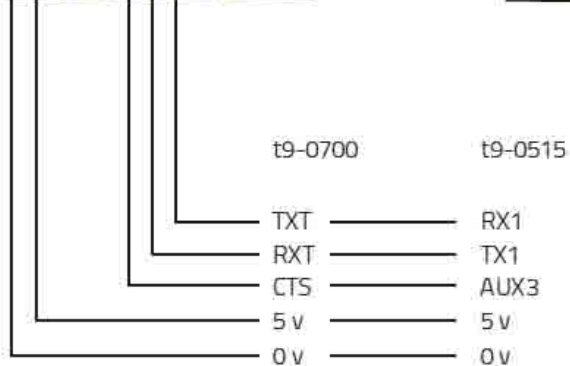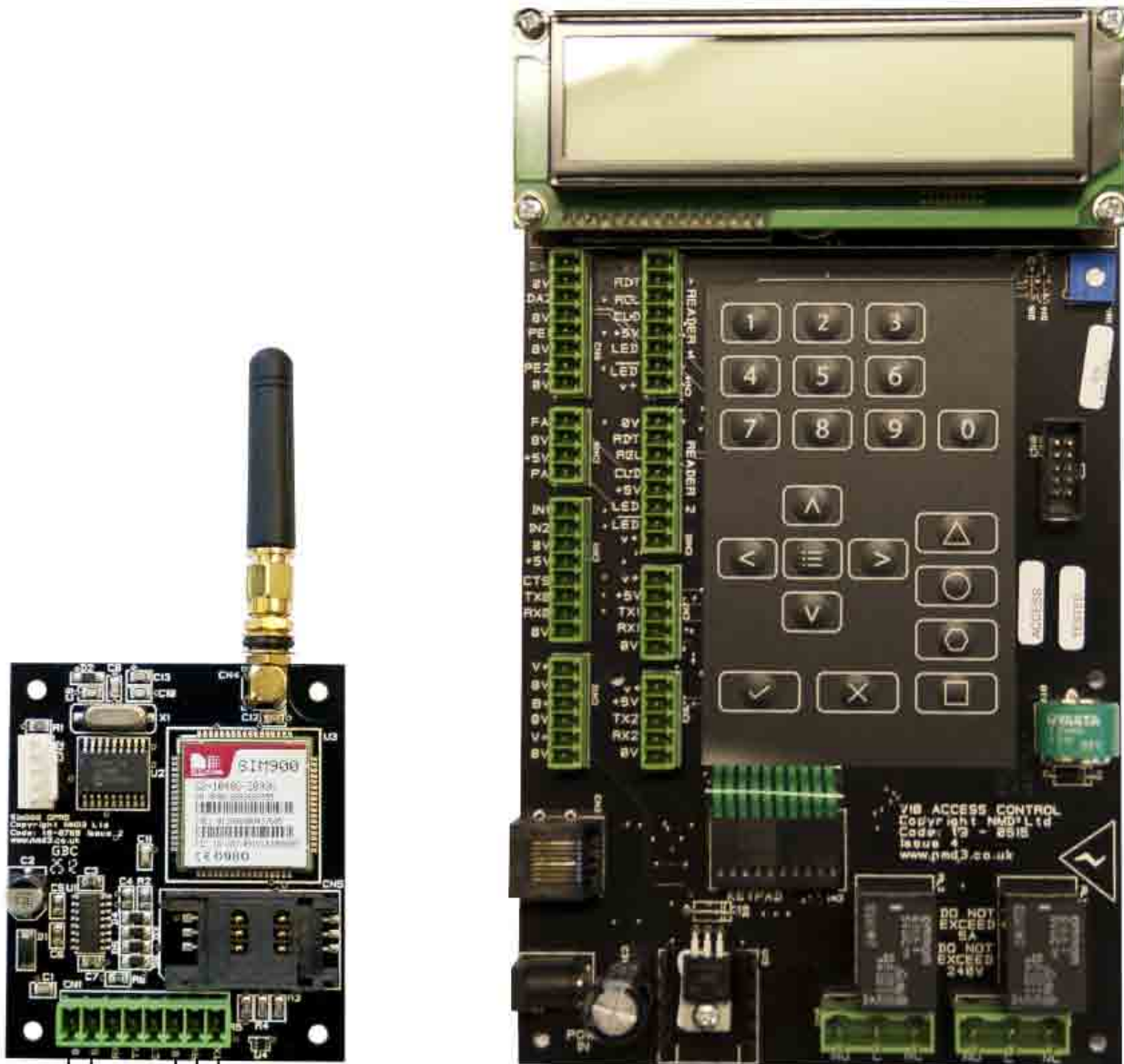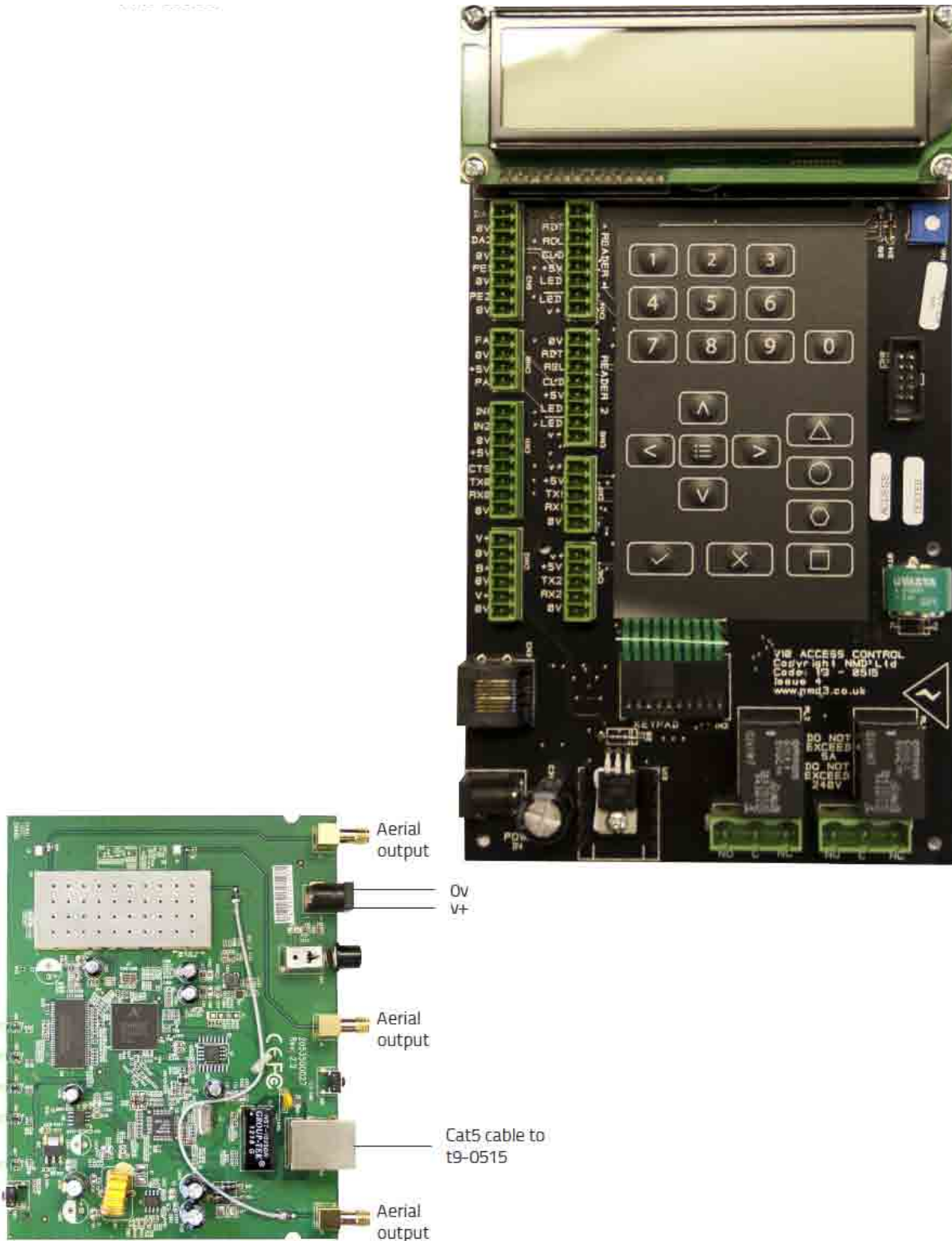
v10 issue 4 access control pcb datasheet
Internal Power Supply

t9-0515

t9-0020

v10 issue 4 access control pcb datasheet
iCLASS R10 HID reader

t9–0515   iClassR10

black	——	0v
green	——	RTD/D0
yellow	——	RCL/D1
red	——	+v

red   black

yellow   green

v10 issue 4 access control pcb datasheet
Push to exit - temporary fix

On a number of customers sites we have noticed instances of push to exit buttons opening doors of its own accord. This is caused by a build up of voltage supplied to the board inadvertantly activating the doors.

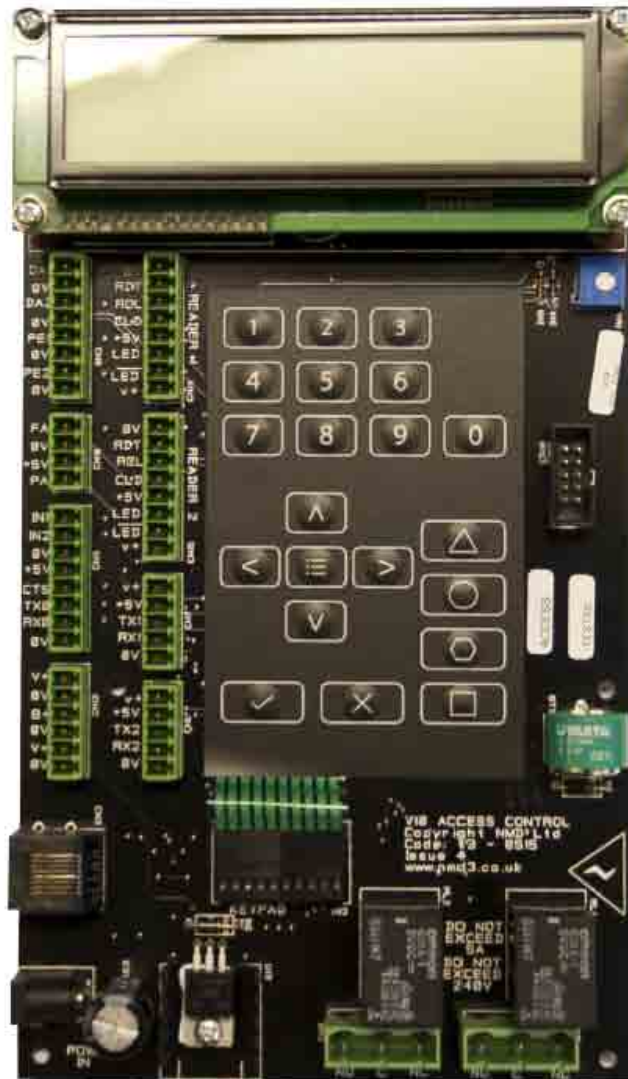A temporary fix to the problem has been issued until a permanent addition to the access control series of boards can be implemented. It involves wiring of two resistors across three points of the board (shown below)
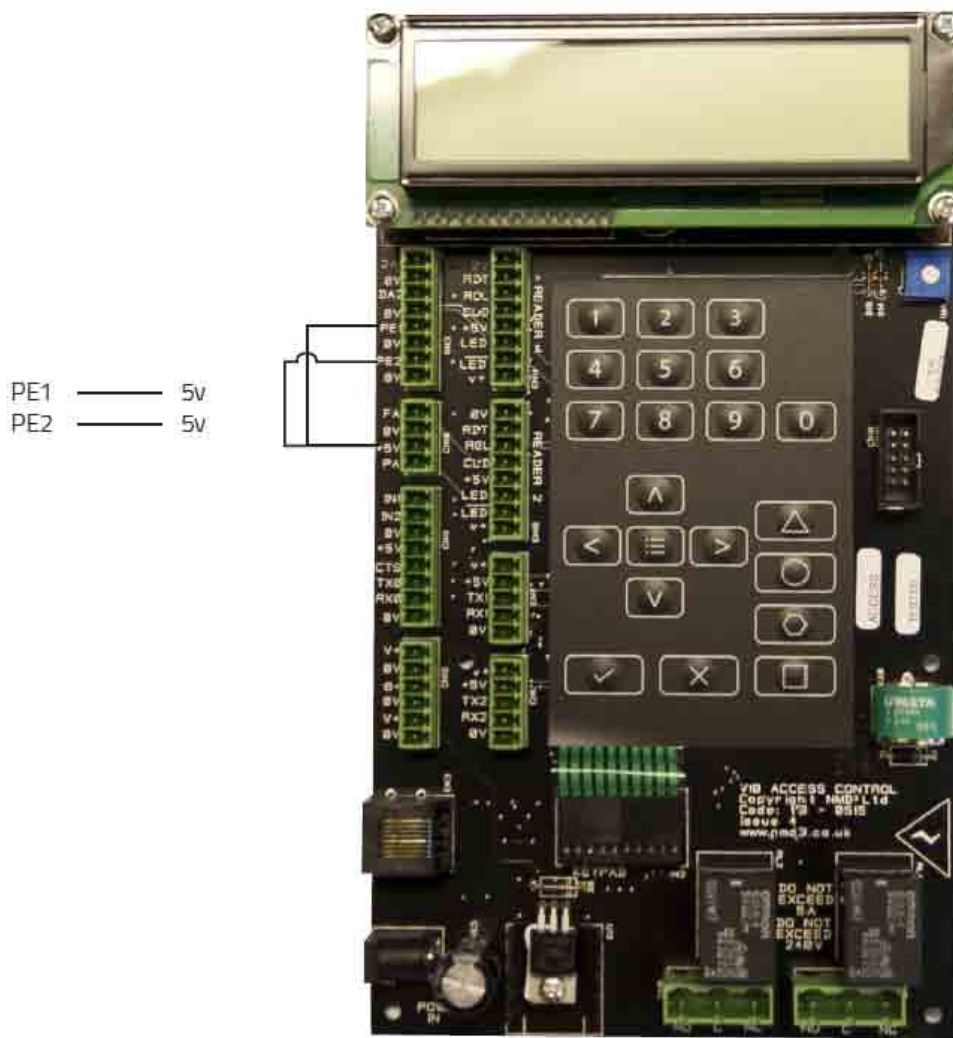
Please contact the timeware® support team if you require assistance or the resistors themselves.

v10 issue 4 assembly point pcb

v10 issue 4 assembly point pcb introduction

A brief description of the v10 Assembly Point PCB (issue 3)

The v10 assembly point PCB is based on the v10 access PCB which in turn has over 7 years development and a production run in excess of 1,000 access terminals!

In simple terms, the memory of the terminal is divided into three sections:

1. The firmware program that controls the operation of the PCB.

a. The firmware is stored in FLASH memory which means that it can easily be changed, (via the software), in the event of a new release. New firmware is posted in the download area of the timeware® community site www.timeware.org.

2. The 'name table' that contains the list of people that can use the terminal.

a. The 'name table' contain various information fields relating to an individual, ie: badge number, unique ID, plus other flags. Depending on the configuration of the system, some information is not always required in the 'name table': badge number on a bio terminal is a good example.

b. The maximum number of people that can use an access control terminal is 5250.

c. The maximum number of people able to use the bio function on an attendance/job costing terminal is 1500.

4. The 'storage table' that contains the bookings and events records.

a. Over 9500 records can be held in the 'storage table'. In reality, with the roll call service polling every 10 seconds there is typically no more that 10 records held in memory at any one time. If the polling stops, the memory is allowed to 'wrap-round', deleting the oldest records.
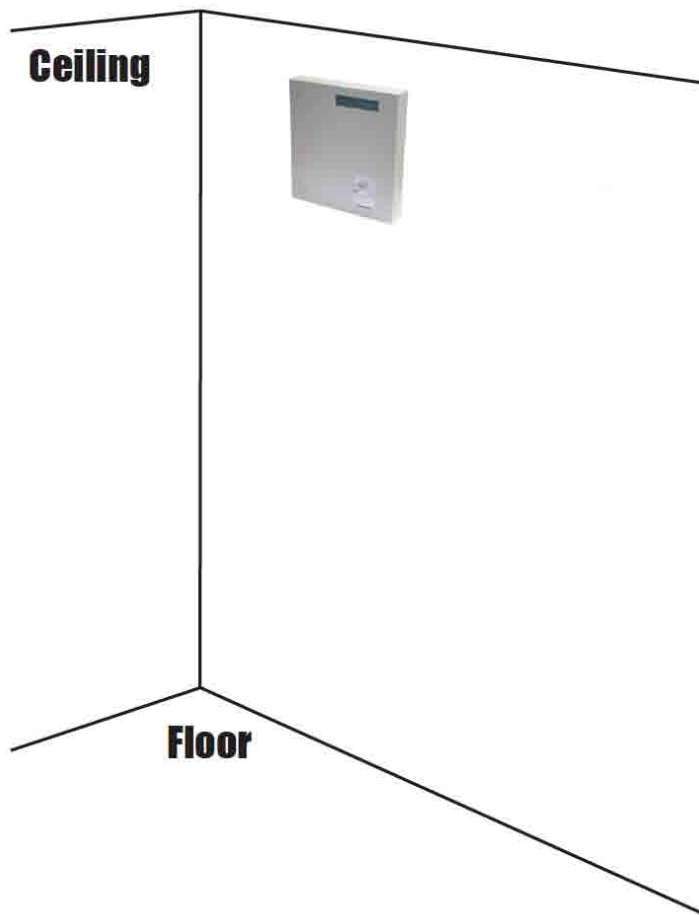
Please remember to check the latest firmware versions in the download area of the timeware® community site on a regular basis.

v10 issue 4 assembly point pcb installation instructions

45

1. What do I require to install this equipment...

- Phillips or Flat head screwdriver
- Small Phillips head screwdriver
- Cable ties
- Electric drill
- Masonry drill bit for 8s screws
- Rawlplugs for 8s screws
- 4 x 8s screws to fit head of above screwdriver

- Spirit level
- Tape measure
- RJ45 Socket within 1 metre of site of terminal
- Minimum 1 metre Patch lead
- 13amp socket within 2 metres of site of terminal
- Plastic Trunking (as required)

2. Positioning on the wall...

Ceiling

Floor

3.

Communications & power...

4.

Setting up the IP address

How to set the I.P Address:		Display shows
1. Press the List key once	x 1	1.0.0 t9 10.4.4 Status
2. Press the down arrow key twice	x 2	3.0.0 Configuration
3. Press the tick once	x 1	3.0.0 Code:_
4. Press the following in the same sequence twice	9 8 7 6	3.0.0 Code: xxxx
5. Press the green tick once	x 1	3.1.0 Time & date
6. Press the down arrow key once	x 1	3.2.0 Communication

How to set the I.P Address:		Display shows
7. Press the green tick once	x 1	Comms type: Network
8. Press the green tick once	x 1	Terminal IP 192.168. 1. 70
9. Enter the desired IP address		
10. Press the green tick once	x 1	Save Changes Accept/Reject
11. Press the green tick once	x 1	
12. Finally, press the red X key twice to return to the time & date. Your terminal is now configured for your network	x 2	

v10 issue 4 assembly point pcb description

A brief description of the v10 assembly point PCB (issue 3) (continued)

The menu system of the assembly point terminal is divided into 3 sections:

1. Status menu (not usually password protected)

a. The status menu enables the user/technician to check the various setting of the terminal. These include:

    a.i. Communications settings

        a.i.1. Network/USB/GPRS

        a.i.2. Terminal IP

        a.i.3. Enquiry IP

            a.i.3.a. Subnet mask

            a.i.3.b. Default gateway

        a.i.4. MAC address

    a.ii. Memory settings

        a.ii.1. Memory in use by employees ('name table')

        a.ii.2. Memory in use by bookings ('storage table)

        a.ii.3. Memory in use by access patterns (not used)

        a.ii.4. Memory in use by free zones (not used)

    a.iii. System settings

        a.iii.1. Biometric reader status

        a.iii.2. Reader type

        a.iii.3. Terminal description

        a.iii.4. Power log

        a.iii.5. Sounder status

        a.iii.6. Relay duration

        a.iii.7. Readers 1 & 2 and relays 1 & 2 configuration (not used)

        a.iii.8. Anti-passback status (not used)

        a.iii.9. Door ajar status (not used)

A brief description of the v10 assembly point PCB (issue 3) (continued)

2. Supervisor menu (usually password protected)

a. The supervisor menu enables the supervisor to complete the following:

a.i. New enrolment (not normally used)

a.ii. All enrolment (not normally used)

a.iii. USB Sync (not normally used)

a.iv. USB Recovery (not normally used)

3. Configuration menu (usually password protected)

a. The configuration menu enables the technician to complete the following:

a.i. Set the time and date

a.i.1. (discuss MAC address configuration). Refer to IEEE network allocation at: http://standards.ieee.org/develop/regauth/oui/public.html

a.ii. Set communication method: Network/GPRS/USB

a.iii. Badge Test

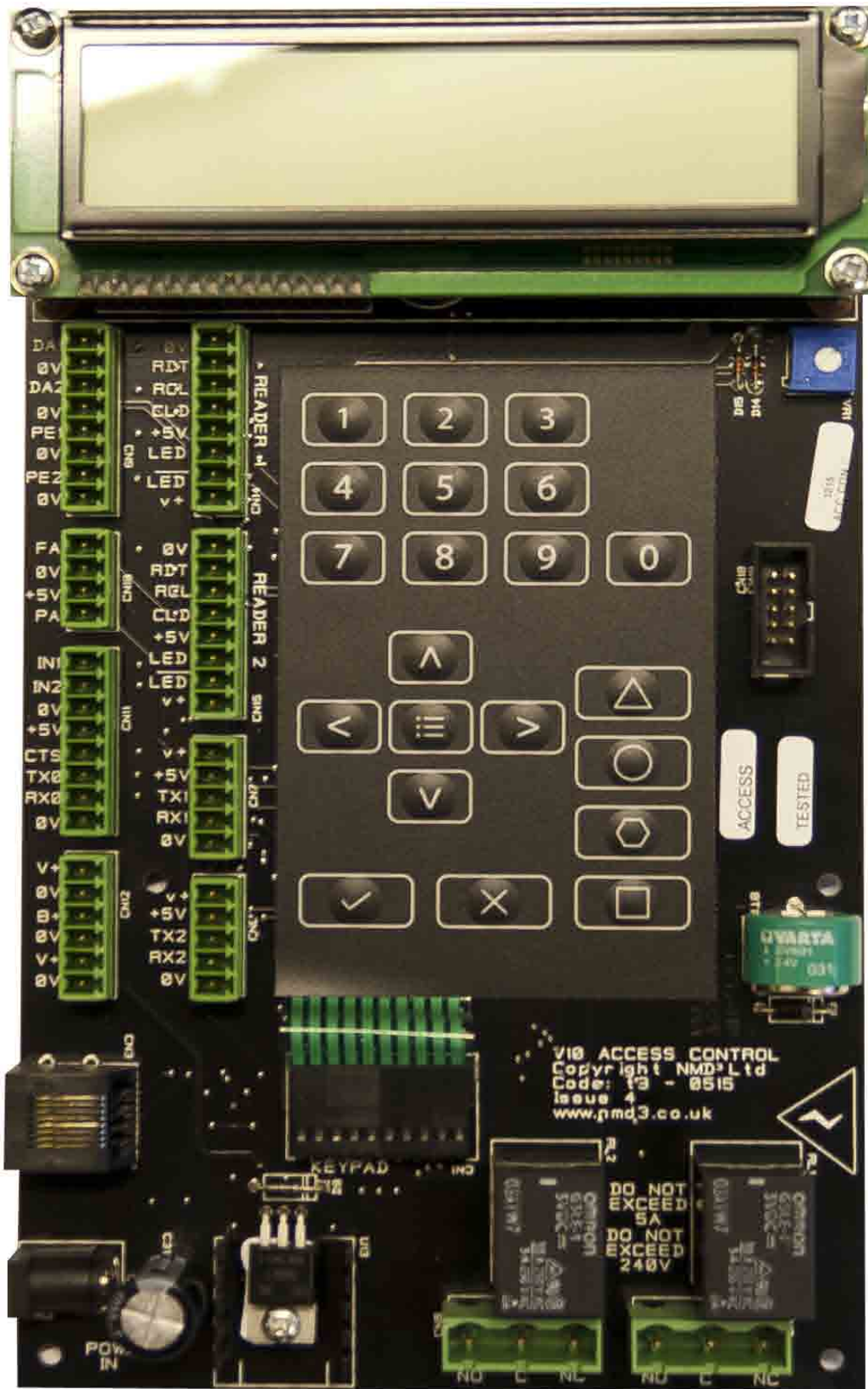a.iv. Relay test (1 & 2)

a.v. Terminal reset

a.vi. USB settings:

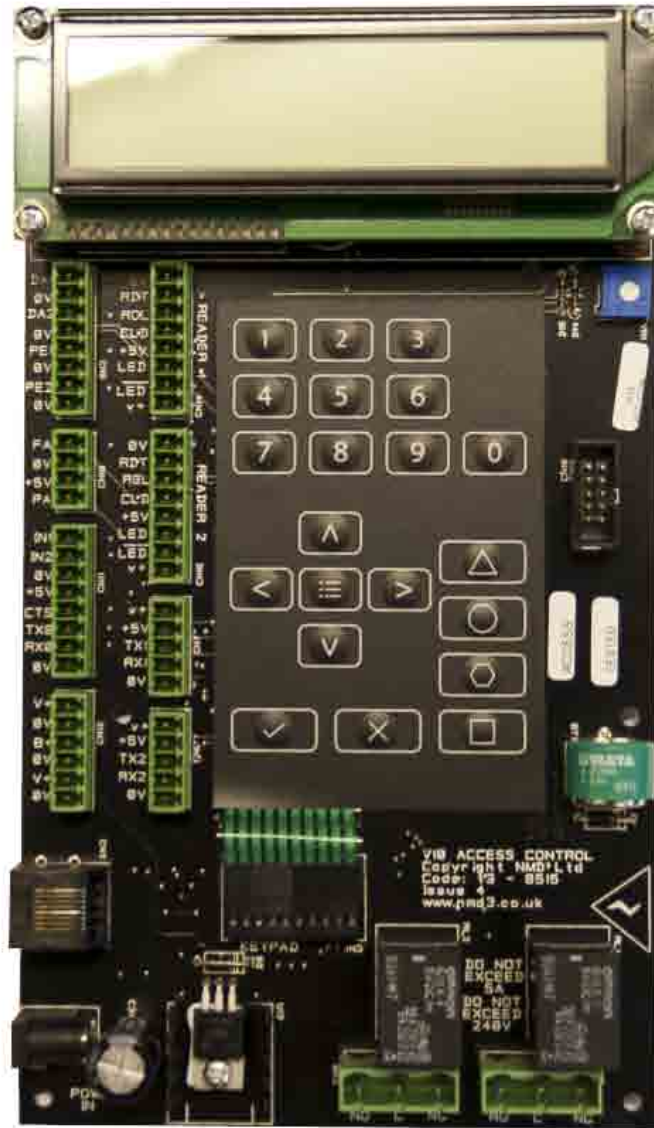a.vi.1. Terminal ID

a.vi.2. Terminal upgrade

v10 issue 4 assembly point pcb datasheet

v10 issue 4 assembly point pcb datasheet
USB connection

VDrive2 from Vinculum	VDrive2		t9-0515
	blue	——————	n/a
	green	——————	0v
	yellow	——————	RX0
	orange	——————	TX0
	red	——————	5v
	brown	——————	CTS
	black	——————	0v

v10 issue 4 assembly point pcb datasheet

Battery backup

v10 issue 4 assembly point pcb datasheet
t9-0100 proximity connection

t9-0100		t9-0515
Conn1	———	0v
Conn2	———	5v
Conn5	———	CLD
Conn6	———	RCL/D1
Conn7	———	RDT/D0

v10 issue 4 assembly point pcb datasheet
t9-0360 biometric connection

t9-0360		t9-0515
Conn1	————	0v
Conn2	————	5v
Conn5	————	CLD
Conn6	————	RCL/D1
Conn7	————	RDT/D0

v10 issue 4 assembly point pcb datasheet
GPRS

t9-0700		t9-0515
TXT	————	RX1
RXT	————	TX1
CTS	————	AUX3
5 v	————	5 v
0 v	————	0 v

v10 issue 4 assembly point pcb datasheet
Wireless

Aerial output

0v
V+

Aerial output

Cat5 cable to
t9-0515

Aerial output
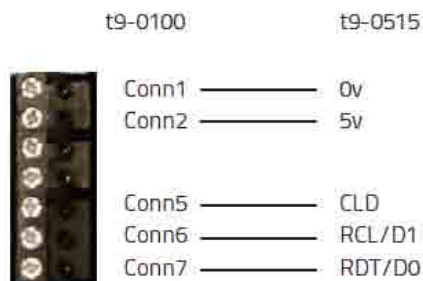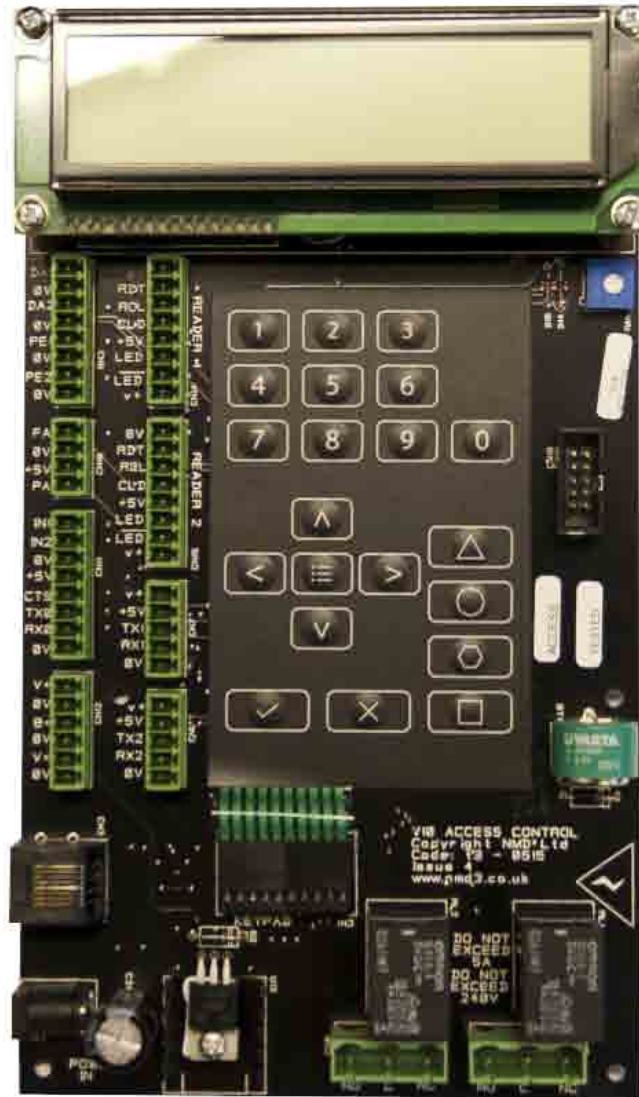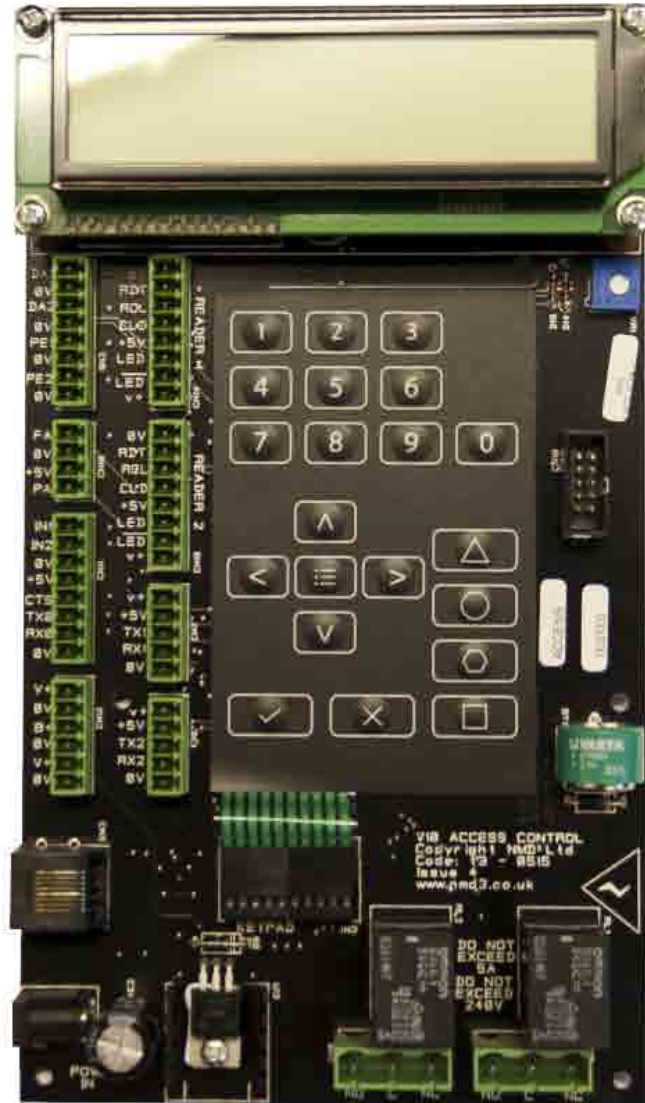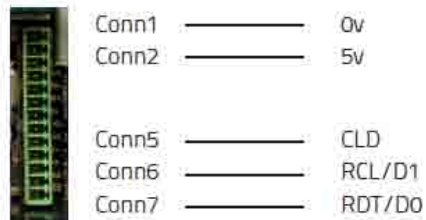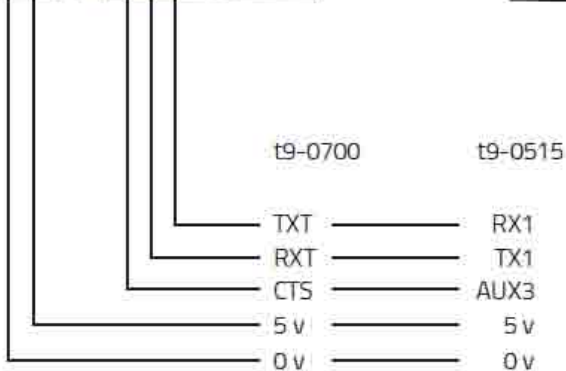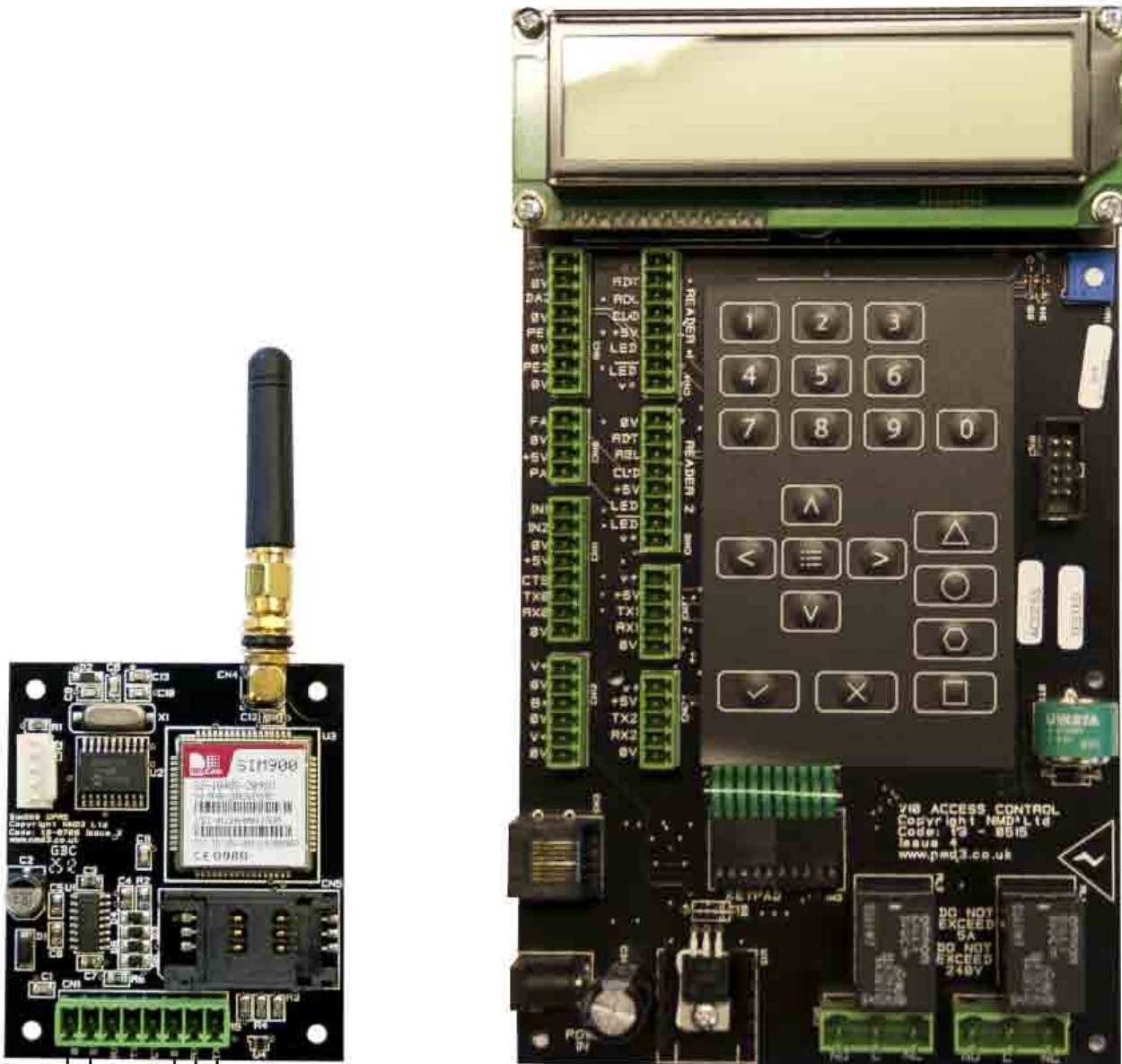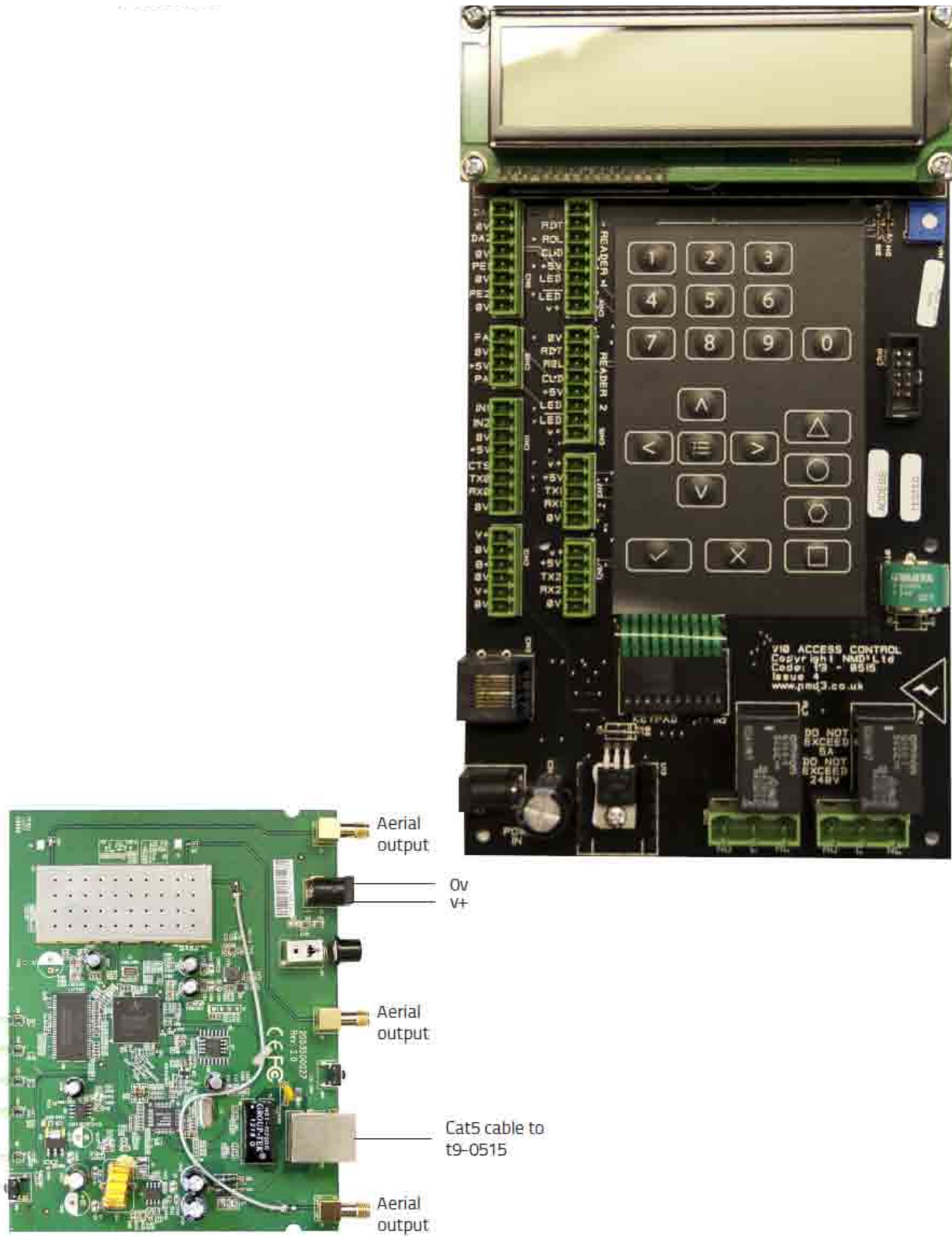
v10 issue 4 assembly point pcb datasheet

Internal power supply

t9-0515

t9-0020
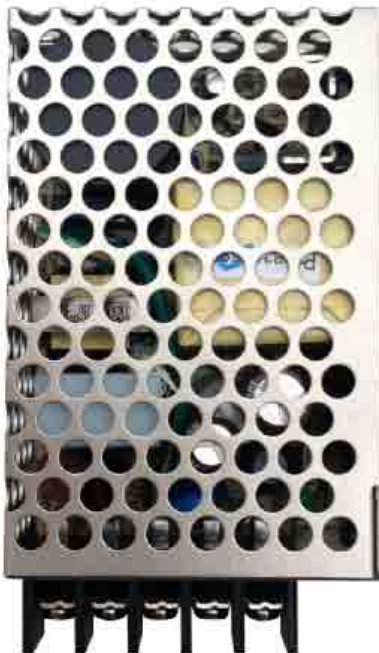
v10 issue 4 assembly point pcb datasheet

iCLASS R10 HID reader

t9-0515		iClassR10
black	——	0v
green	——	RTD/D0
yellow	——	RCL/D1
red	——	+v

red   black
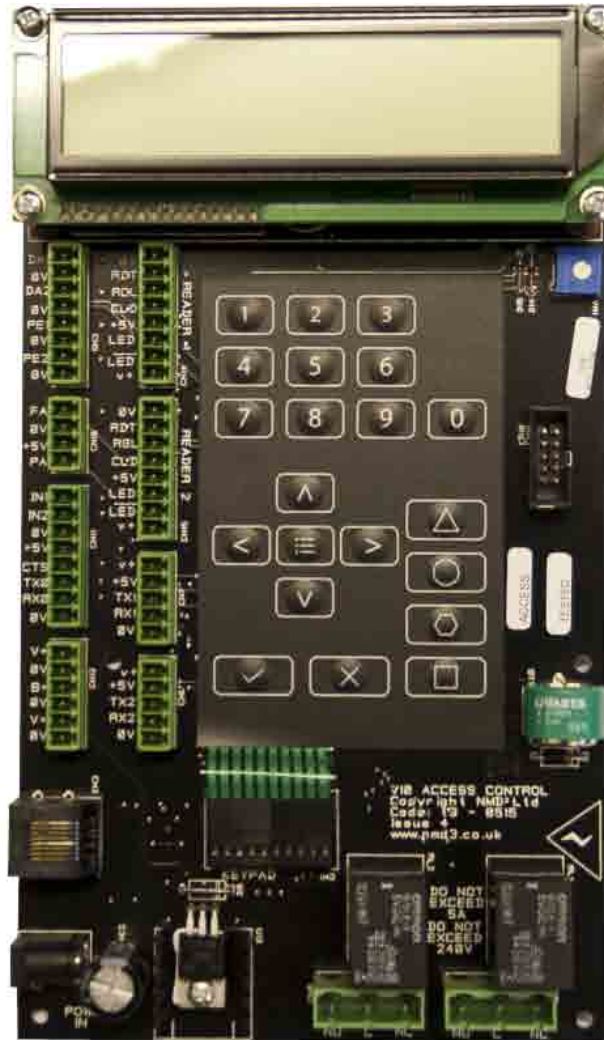
yellow   green

v10 issue 4 fire alarm monitor
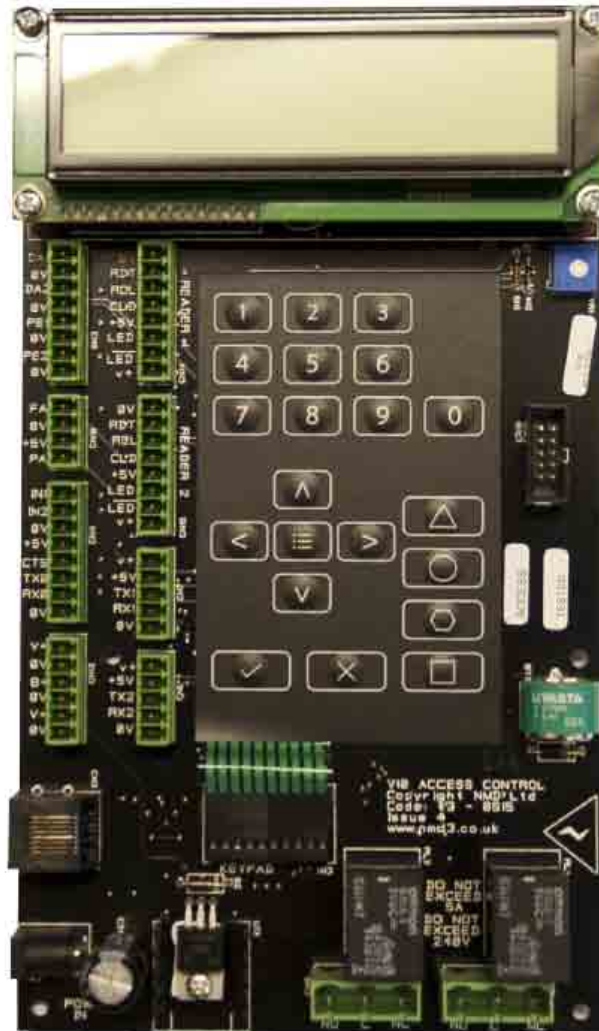
v10 issue 4 fire alarm monitor introduction

A brief description of the v10 Assembly Point PCB (issue 3)

The v10 assembly point PCB is based on the v10 access PCB which in turn has over 7 years development and a production run in excess of 1,000 access terminals!

In simple terms, the memory of the terminal is divided into three sections:

1. The firmware program that controls the operation of the PCB.

a. The firmware is stored in FLASH memory which means that it can easily be changed, (via the software), in the event of a new release. New firmware is posted in the download area of the timeware® community site www.timeware.org.

2. The 'name table' that contains the list of people that can use the terminal.

a. The 'name table' contain various information fields relating to an individual, ie: badge number, unique ID, plus other flags. Depending on the configuration of the system, some information is not always required in the 'name table': badge number on a bio terminal is a good example.

b. The maximum number of people that can use an access control terminal is 5250.

c. The maximum number of people able to use the bio function on an attendance/job costing terminal is 1500.

4. The 'storage table' that contains the bookings and events records.

a. Over 9500 records can be held in the 'storage table'. In reality, with the roll call service polling every 10 seconds there is typically no more that 10 records held in memory at any one time. If the polling stops, the memory is allowed to 'wrap-round', deleting the oldest records.
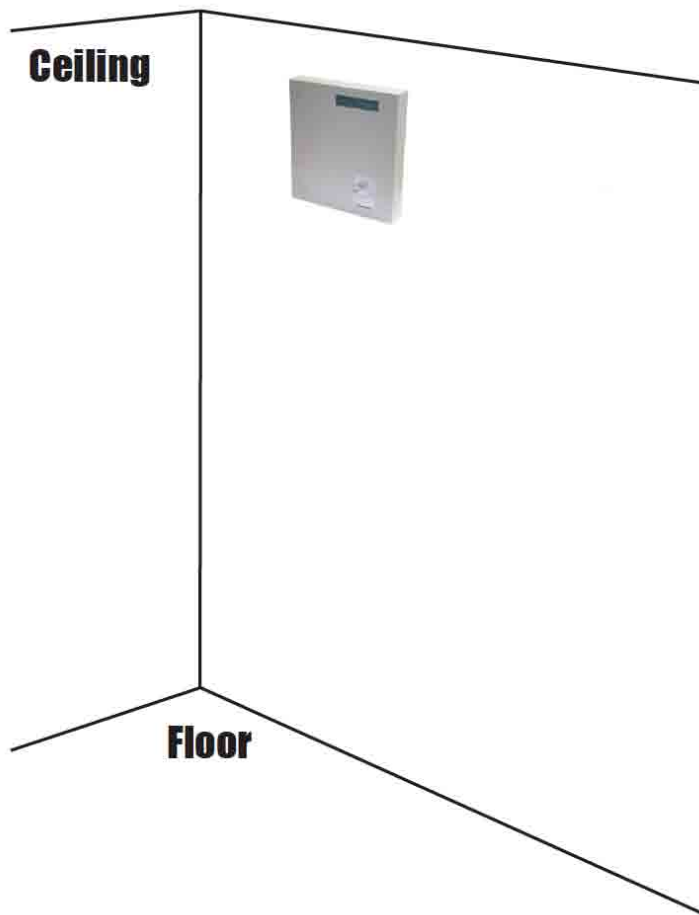
Please remember to check the latest firmware versions in the download area of the timeware® community site on a regular basis.

v10 issue 4 fire alarm monitor pcb installation instructions

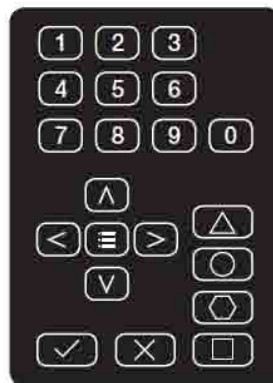## 1. What do I require to install this equipment...

- Phillips or Flat head screwdriver
- Small Phillips head screwdriver
- Cable ties
- Electric drill
- Masonry drill bit for 8s screws
- Rawlplugs for 8s screws
- 4 x 8s screws to fit head of above screwdriver

- Spirit level
- Tape measure
- RJ45 Socket within 1 metre of site of terminal
- Minimum 1 metre Patch lead
- 13amp socket within 2 metres of site of terminal
- Plastic Trunking (as required)

2. Positioning on the wall...

Ceiling

Floor

3.
Communications & power...

4.
Setting up the IP address

How to set the I.P Address:		Display shows
1. Press the List key once	x 1	1.0.0 t9 10.4.4 Status
2. Press the down arrow key twice	x 2	3.0.0 Configuration
3. Press the tick once	x 1	3.0.0 Code:_
4. Press the following in the same sequence twice 9 8 7 6		3.0.0 Code: xxxx
5. Press the green tick once	x 1	3.1.0 Time & date
6. Press the down arrow key once	x 1	3.2.0 Communication

How to set the I.P Address:		Display shows
7. Press the green tick once	x 1	Comms type: Network
8. Press the green tick once	x 1	Terminal IP 192.168. 1. 70
9. Enter the desired IP address		
10. Press the green tick once	x 1	Save Changes Accept/Reject
11. Press the green tick once	x 1	
12. Finally, press the red X key twice to return to the time & date. Your terminal is now configured for your network	x 2	

v10 issue 4 fire alarm monitor description

A brief description of the v10 assembly point PCB (issue 3) (continued)

The menu system of the assembly point terminal is divided into 3 sections:

1. Status menu (not usually password protected)

a. The status menu enables the user/technician to check the various setting of the terminal. These include:

    a.i. Communications settings

        a.i.1. Network/USB/GPRS

        a.i.2. Terminal IP

        a.i.3. Enquiry IP (not used)

            a.i.3.a. Subnet mask (not used)

            a.i.3.b. Default gateway (not used)

        a.i.4. MAC address

    a.ii. Memory settings

        a.ii.1. Memory in use by employees ('name table')

        a.ii.2. Memory in use by bookings ('storage table)

        a.ii.3. Memory in use by access patterns (not used)

        a.ii.4. Memory in use by free zones (not used)

    a.iii. System settings

        a.iii.1. Biometric reader status

        a.iii.2. Reader type

        a.iii.3. Terminal description

        a.iii.4. Power log

        a.iii.5. Sounder status

        a.iii.6. Relay duration

        a.iii.7. Readers 1 & 2 and relays 1 & 2 configuration (not used)

        a.iii.8. Anti-passback status (not used)

        a.iii.9. Door ajar status (not used)

A brief description of the v10 assembly point PCB (issue 3) (continued)

2. Supervisor menu (usually password protected)

a. The supervisor menu enables the supervisor to complete the following:

a.i. New enrolment (not normally used)

a.ii. All enrolment (not normally used)

a.iii. USB Sync (not normally used)

a.iv. USB Recovery (not normally used)

3. Configuration menu (usually password protected)

a. The configuration menu enables the technician to complete the following:

a.i. Set the time and date

a.i.1. (discuss MAC address configuration). Refer to IEEE network allocation at: http://standards.ieee.org/develop/regauth/oui/public.html

a.ii. Set communication method: Network/GPRS/USB

a.iii. Badge Test
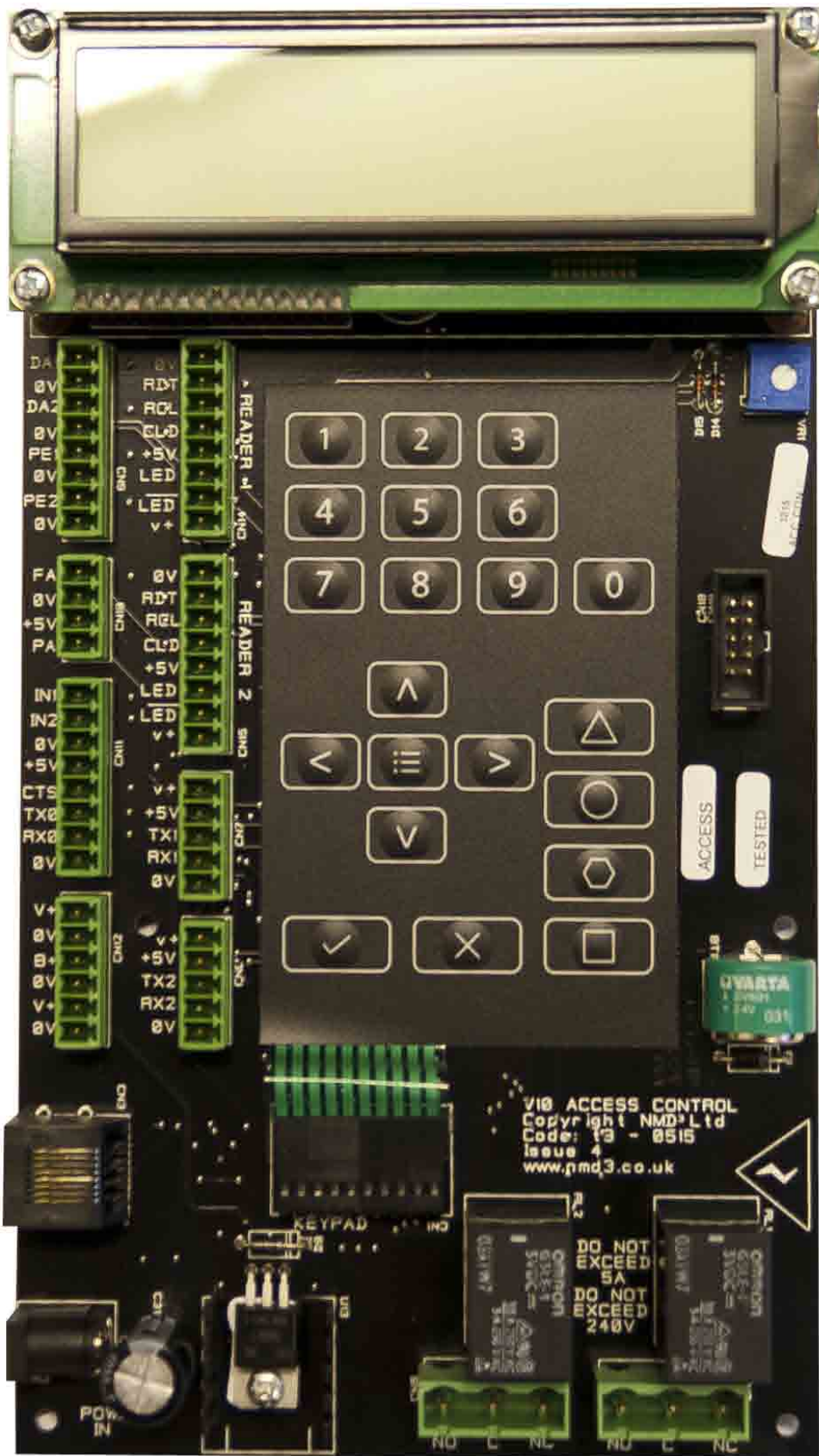
a.iv. Relay test (1 & 2)

a.v. Terminal reset

a.vi. USB settings:

a.vi.1. Terminal ID

a.vi.2. Terminal upgrade

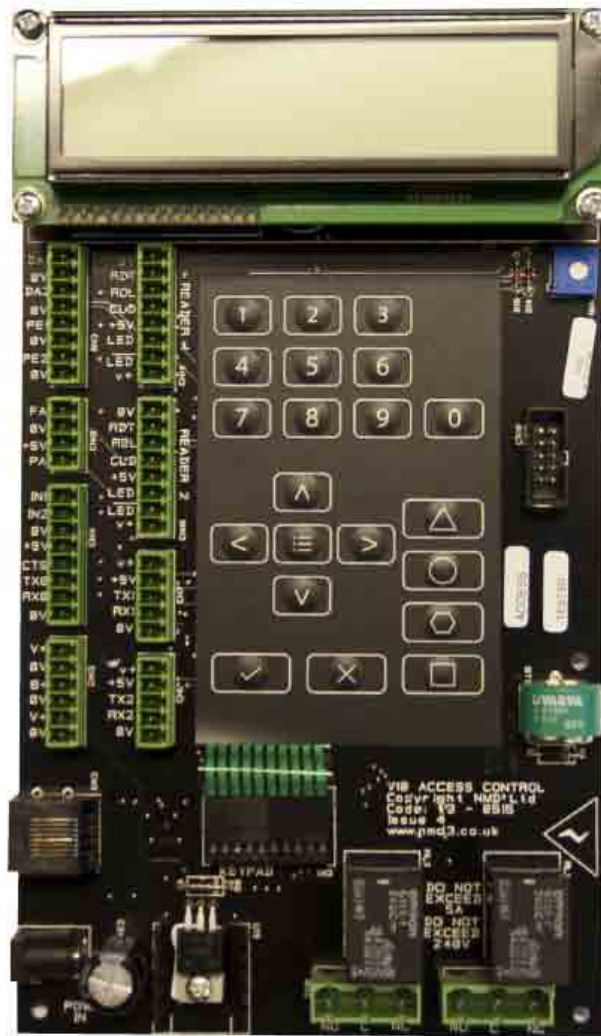# v10 issue 4 fire alarm monitor datasheet

v10 issue 4 fire alarm monitor datasheet

Internal power supply

t9-0515

t9-0020

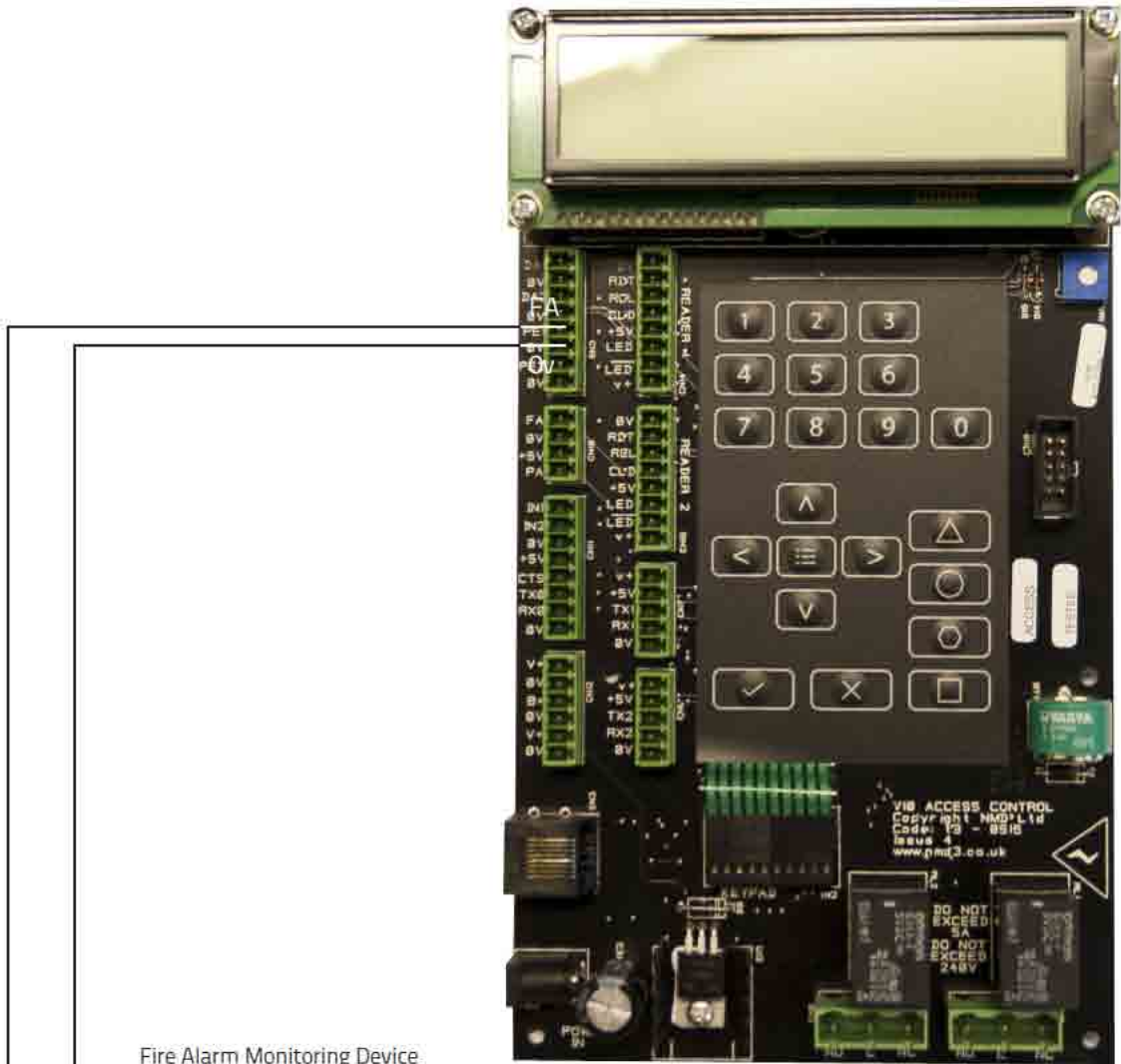# v10 issue 4 fire alarm monitor datasheet
Fire alarm input

Fire Alarm Monitoring Device

SIEMENS

Alarm relay

FS-250

In the event of a fire, the alarm relay will close.

To simulate a fire alarm signal simply connect 0v and RTD together.

Desktop registration devices

A brief description of the timeware® desktop registration devices

There are currently two desktop enrolment devices:

> **1.** The t8-0355 USB fingerprint enrolment device
>
> **2.** The t9-0230 USB proximity card/fob enrolment device

The devices are not essential. timeware® professional 2013 can be used without the client purchasing the products.

However, the reason for purchasing the products is that the enrolment of employees fingers, or the enrolment of 10 digit badge numbers becomes much less cumbersome as this procedure may be carried out in the comfort of the HR office, rather than at the terminal on the factory floor!

Product: t8-0355

This device is manufactured by Secugen Corporation and is sold under the name of the Hamster plus.

The device may be purchased from their UK distributor called Delaney Secure – **http://www.delaneysecure.com/**

The drivers for the device can be found on the download area of the timeware® community site.

Access to the enrolment process is through the personnel screen in timeware® professional 2013.

Product: t9-0230

This device is manufactured by timeware® (UK) Ltd and is sold under the name of the t9-0230.

The device may be purchased from timeware® (UK) Ltd – **http://www.timeware.org**

The drivers for the device can be found on the download area of the timeware® community site.

Access to the enrolment process is through the personnel screen in timeware® professional 2013.