Set-Up Guide

Overview

The set-up guide is aimed at System Administrators & System Installers. Where this guide overlaps actions outlined in the User Manual it will highlight the relevant section for the Administrator/Installer to refer to.

Set-up & Installation should be completed by competent persons, please read this manual in full before commencing any work on the base station.

Quick Start Guides are also issued with new sensors, these guides explain how to configure the sensors to a base station, and these should be used in conjunction with this document during sensor set-up.

Note (No.) A number in brackets refers to relevant part of the system outlined in the System Overview D3 Base Station Assembly of the User Guide

New System Set-up

Hint - Once set-up the base station retains the configuration of all sensors, users, etc. even when powered down. Setting a new system up over a laptop connection and then connecting to the site network is by far the simplest and quickest set-up method.

After reading Settings section of the manual, and prior to commencing sensor set-up, thought should be put into how sensors will be; given a unique ID, named, the set points needed, the alarm delay needed and if the sensors will be grouped together. Actions required on alarm for each sensor will also assist in defining the alarm profiles needed. Planning and documenting this will make the set-up process far simpler.

New system set-up work-flow best practice;

- *Network the base station*
- *Check and set time & date*
- *Complete the default Site Settings*
- *Create additional sensor types required in the Customer Sensor Database*
- *Add & pair all required sensors*
- *Create alarms profiles*
- *Create required Schedules (if needed)*
- *Edit sensor set points, attach to alarm profiles & auto inhibit schedule (if needed)*
- *Complete Email Set-up & send test email*
- *Create Users & access levels*
- *Attach any peripheral hardware & Mount the Base Station*
- *Install the sensors & repeaters as necessary*
- *Issues Users with login details*

If a site plan is available, marking the positions of installed sensors and repeaters along with their assigned ID's will simplify finding these items at a later date if required.

9. Powering the D3 Base Station

9.1. Powering Up

Connect the power supply male jack to the female input power connector socket (7), securing the power cable behind the internal securing lug built into the base station.

Plug the power supply into a mains socket and switch on, press and hold the power button (5) until the unit starts to power on. The unit's initialisation progress bar will be displayed. Once power up is complete the menu screen will display and the base station is ready.

The LED on the base station display will show solid colour to indicate the system is powered.

9.2. Powering Down

Press and hold the power button (5) for 15 seconds, the base station will then fully power down.

Internal Battery Back-Up[2] (operation & testing)

On connection to mains power supply the internal battery back-up will commence charging, on mains power loss the battery back-up will auto switch and power the base station.

Note - It is recommended that the battery back-up operation is tested regularly (manufacturer recommends at least monthly). To test; remove the mains power to the base station (switch off at the mains power socket), the base station should continue to function.

Replacement of the battery for the battery back-up should only be completed by competent persons, refer to the system supplier for assistance should the battery need to be replaced.

10. Networking the Base Station - IP Connectivity

The D3 is capable of operating in 3 different IP modes, they are;

- **DHCP Client** - (default from new) this allows the system to be connected directly to an available network port and for that network to provide all the relevant IP settings to access the networked interface - see section 3. Network Interface.

Note - Though this makes for an easier installation of the system the network can assign the base station a new IP, meaning any favourite saved within web browser would need to be updated.

- **DHCP Server –** This allows the base station to communicate with a pc/laptop directly via an ethernet connection. The base station is acting as a server and gives out an IP that can be easily located on the PC/Laptop being used. This option is frequently used when setting the system up on installation, as all can be done on a laptop/pc beforehand.

  Where the user wants to connect to a dedicated PC or Laptop this option can also be used but it will limit the alarm capabilities of the system and is not recommended.

Note – do not connect a base station in DHCP Server mode directly into a network as a conflict in IP settings on that network could occur.

- **Static –** This base station is set to a static IP address on the network. The benefit of the static IP is that it does not change (unlike DHCP Client). This means that even if the network loses power on reboot the same IP will be assigned to the base station. This stops the users having to rediscover the IP from the base station for access via their preferred web browser (the static IP can be saved as a favourite or desk top icon).

10.1. IP Setup via the Base Station

HOME => SET UP => Authorise => IP

Also refer to the D3 Quick Start Guide

10.1.1. DHCP Client Mode

HOME => SET UP => Authorise => IP => Change => NETWORK MODE => Select DHCP Client

In DHCP client the network will automatically assign the IP configuration one the system is connected to the network. The assigned network IP address is visible in the Info view (HOME => INFO).

10.1.2. DHCP Server Mode

HOME => SET UP => Authorise => IP => Change => NETWORK MODE => Select DHCP Server

In Server mode the base station is configured for direct connection to a PC/Laptop using a network cable. The IP Address is fixed and is 192.168.100.100

10.1.3. Static Mode

HOME => SET UP => Authorise => IP => Change => NETWORK MODE => Select Static

The base station retains the last Static configuration set, the Static IP details can only be entered/updated over the network interface.

10.2. IP Setup via the Network Interface

SITE => SETTINGS => NETWORKING => IP SETUP

10.2.1. DHCP Client Mode

SITE => SETTINGS => NETWORKING => IP SETUP => DHCP CLIENT

Host Name – this can be edited, the host name is visible on the network and makes identification assigned base station IP easier for IT departments.

The IP Address, Subnet, Gateway, Preferred & Alternate DNS are all auto supplied by the network and no action needs to be taken.

The HTTP Port is also normally auto supplied, however should the network administrator require this can be edited.

10.2.2. DHCP Server Mode

SITE => SETTINGS => NETWORKING => IP SETUP => DHCP SERVER

The IP is set at 192.168.100.100 and does not change, in this mode the unit can be connected directly to a PC/Laptop. Entering this IP address into the browser will access the login window.

10.2.3. Static Mode

SITE => SETTINGS => NETWORKING => IP SETUP => DHCP STATIC

The IP Address, Subnet, Gateway, Preferred & Alternate DNS and HTTP Port must all be manually configured.

Note – the system retains the last static IP settings entered. Therefore once the static IP is set-up other modes can be used, on return to the static mode the last set details will be displayed and can be set. Failure to set all items correctly in static mode may lead to the access and email functionality being impaired.

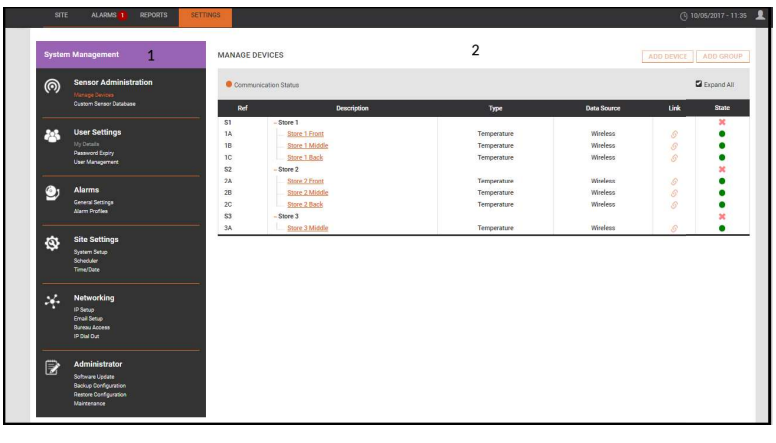
SETTINGS

SITE => SETTINGS

The basic set up of the system and its operational parameters are completed through the Setting page. Remember, users will only see those elements of the Settings page that their user defined access levels allow, only Administrator level users see the full Settings page as outlined below.

Note - The default view when entering the Settings page is Manage Devices as below. The settings menu is on the left of the screen with the actions selectable grouped into their relevant headings, the selected action is displayed and updated on the right.

1. Settings Menu Bar



- **Sensor Administration** – Allows for the management of sensors/devices on the system and includes the ability to create user defined device types for pulse, linear and volt free input sensors and add these to the sensor database.
- **User Settings –** Includes the elements for all users to amend their own user's details, allows the administrator to set password expiry and the overall management of system users.
- **Alarms –** Allows for the general alarm settings to be created as well as for the administrators to create bespoke alarm profiles – sensors are attached to an alarm profile, the profile outlines the system actions when a sensor goes into an alarm state.
- **Site Settings –** Includes the basic system set up, the scheduler settings that sensors and alarms can be configured against and the ability to amend the systems Time/Date.