

Resource
Data Management

Mercury 3 Stand Alone Monitor

Commissioning/User Guide
Revision 1.4



PR0740 MR IP-SAM
PR0740 MD IP-SAM

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The Mercury Mk3 Stand Alone Monitor (SAM)

From Resource Data Management

The Mercury Mk3 Stand Alone Monitor (SAM) is intended as a device capable of monitoring up to 8 physical inputs; 6 analogue probes and 2 digital inputs. In instances where the integration of monitoring units is too costly to link to the main Front End Panel, this device will provide logging with periodic exports and alarm data, of which can be sent to web servers for correlation.

As standard, it communicates via its Ethernet port over any IP based network. Individual alarm set points can be configured to indicate severity of alarm, alarm delays can be set and defrost inputs can be used to signify when units are in defrost. Along with the device, the Individual channels can also be aliased for clear indication of locations and fridge IDs. Probe Offsets can be applied.

Alarms generated from each input can be forwarded to specific client servers in the form of xml data where periodic 'test alarms' can also be configured to confirm the communication status.

Exported data can be set up to send data logs, at user selected frequencies, for the individual channels to client servers.

Variants

Description	Part Number
Mercury Mk3 Stand Alone Monitor, Internal Display, IP comms.	PR0740 MD IP SAM
Mercury Mk3 Stand Alone Monitor, Remote Display, IP comms	PR0740 MR IP SAM

Configuration

The controller only has one configuration type.

Main Display



Keys



Enter



Up



Down



Note: Function keys illuminate when pressed, illumination is turned off 20 seconds after the key is used. Press and hold the defrost button to force a manual defrost

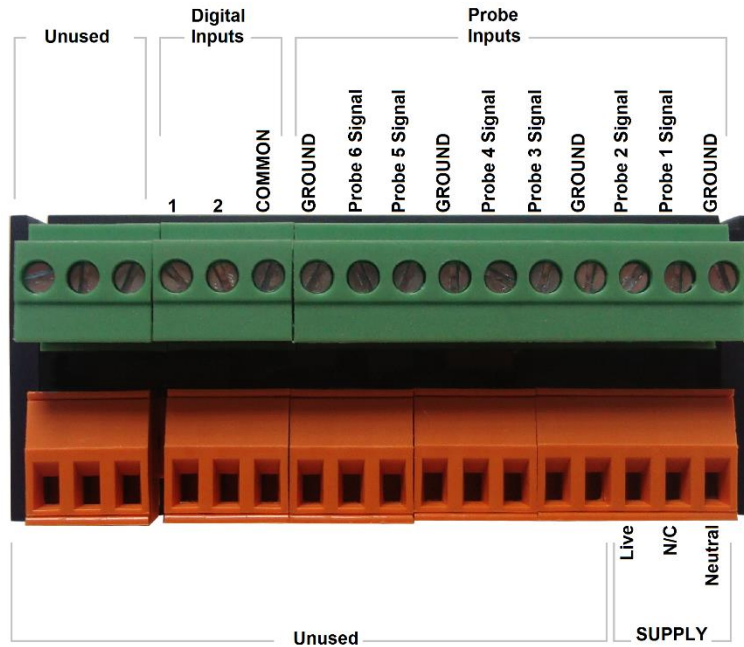
4 character LED display, used to show if the controller is 'On', along with menu access.



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Mercury MK3 I/O Connections

Input and Output connections are made to the back of the controller, the Ethernet port is on the side. The diagram below shows the connection detail. Inputs and outputs are assigned according to the chosen configuration. See [Input/Output](#) tables for further details on connections.



Note: On the supply, N/C equates to 'No Connection'.

Input and Output Allocation Tables

The following table indicates the functions of the inputs and outputs. Also shown, are the digital inputs that are derived by switching in a fixed value resistor across the input.

I/O	Monitor	Alarm Action
Input 1	Probe 1	Yes
Input 2	Probe 2	Yes
Input 3	Probe 3	Yes
Input 4	Probe 4	Yes
Input 5	Probe 5	Yes
Input 6	Probe 6	Yes
Variable Input	Not Used	N/A
Digital 1	Selectable; Unused, Log, Alarm, Inverted Alarm, Defrost 1, Defrost 2.	Conditional
Digital 2	Selectable; Unused, Log, Alarm, Inverted Alarm, Defrost 1, Defrost 2.	Conditional
Relay 1	Not Used	N/A
Relay 2	Not Used	N/A
Relay 3	Not Used	N/A
Relay 4	Not Used	N/A
Relay 5	Not Used	N/A



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Setting up the controller

Access to set up the controller is done through the web interface once the user connects to it over an IP address. The device can obtain an IP address in two ways; statically assigning one to it via the Front Display buttons or allowing it to pick one up from a DHCP server.

Display Front Menus



To enter the menus via the front display, hold the Enter and Down buttons together for approximately 3 seconds until the message "Ent" appears on the display.

Setup Function Menu

Display	Option	Explained in Paragraph
Rtc	Set/view Clock (rtc = Real Time Clock)	Real Time Clock
nEt	Set/view network configuration	Network Configuration
SoFt	View software version	
OFSt	Probe Offset	Probe Offset
ESC	Exit Setup mode	

rtc. Real time clock (This will automatically synchronise on network systems)

- Use the up or down buttons to scroll through the display until the display reads "rtc"
- Press enter. The display will show "t-1". press enter again
- Scroll hours up or down (0 – 23) press enter
- Use up button to select "t-2", press enter
- Scroll minutes up or down (0 – 59) press enter
- Repeat for t-3 (seconds 0 – 59)
- Repeat for t-4 (Days up to 31)
- Repeat for t-5 (months up to 12)
- Repeat for t-6 (Year up to 99)
- Use up button to display "ESC", press enter to display "rtc"

Time clock is now set

OFSt. Probe Offset

This feature allows each probe value to be modified by an "offset". Offset values are from -10°C (-18°F) to +10°C (+18°F) and on a channel basis. Entering the menu will offer C-01 – C-06. Confirm which probe is to be set by pressing 'Enter' button, then use the Up and Down arrow keys to amend the offset. Once set, press 'Enter' button to confirm.



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Network Configuration – IP comms

Mercury 3 controllers with the IP interface as standard do not require any communications module and will already communicate on the IP network protocol.

When entering the 'Net' menu, it will have the following menus:

Display	Option
IP-L / IP-r	Read/ Write Static IP address / Read Only DHCP IP address
Id	The 3 digit network address
AtyP	IP-r / IP-L selection
ESC	Exit Menu

IP-L allows you to fix a static IP address into the controller and IP-r allows you to give each controller on the system a unique network number (using the Id);

- To firstly select between IP-L and IP-r navigate to 'AtyP'.
- Confirm either option by pressing the Enter button.

IP-r

Once IP-r is selected the controller must be given a unique 3 digit 'network address' that no other device on the network already has. To do this, within the 'Net' menu, select the 'Id' option. There will be Id-1, Id-2 and Id-3. Entering into these will allow the user to select a number between 0 – 9.

Once the ID has been set, connect the controller to the IP network for it then to be given an IP address by the DHCP server. To view the IP address given, within the Net menu, navigate to 'IP-r' and view IP-1, IP-2, IP-3 and IP-4 (e.g. 10.1.2.80).

IP-L

If IP-L has been selected from the 'AtyP' menu the IP address must be given to the controller by navigating to 'IP-L' within 'Net'. The following menu's will be available;

Display	Option
IP-1	IP Address byte 1
IP-2	IP Address byte 2
IP-3	IP Address byte 3
IP-4	IP Address byte 4
nL	Network Mask Length (see the network mask length table above)
gt-1	Gateway Address byte 1
gt-2	Gateway Address byte 2
gt-3	Gateway Address byte 3
gt-4	Gateway Address byte 4
ESC	Exit network menu. N.B. this option must be selected to save any changes made in this menu

Once the IP address has been entered, the controller can be connected to the IP network.

Network Mask Length

To ease setup, a single network mask length value is used. If the address has been specified with a network mask value in dotted IP format e.g. 255.255.255.0 then the table below gives the conversion:

Mask	Length	Mask	Length	Mask	Length
		255.255.254.0	23	255.254.0.0	15
255.255.255.252	30	255.255.252.0	22	255.252.0.0	14
255.255.255.248	29	255.255.248.0	21	255.248.0.0	13
255.255.255.240	28	255.255.240.0	20	255.240.0.0	12
255.255.255.224	27	255.255.224.0	19	255.224.0.0	11
255.255.255.192	26	255.255.192.0	18	255.192.0.0	10
255.255.255.128	25	255.255.128.0	17	255.128.0.0	09
255.255.255.0	24	255.255.0.0	16	255.0.0.0	08



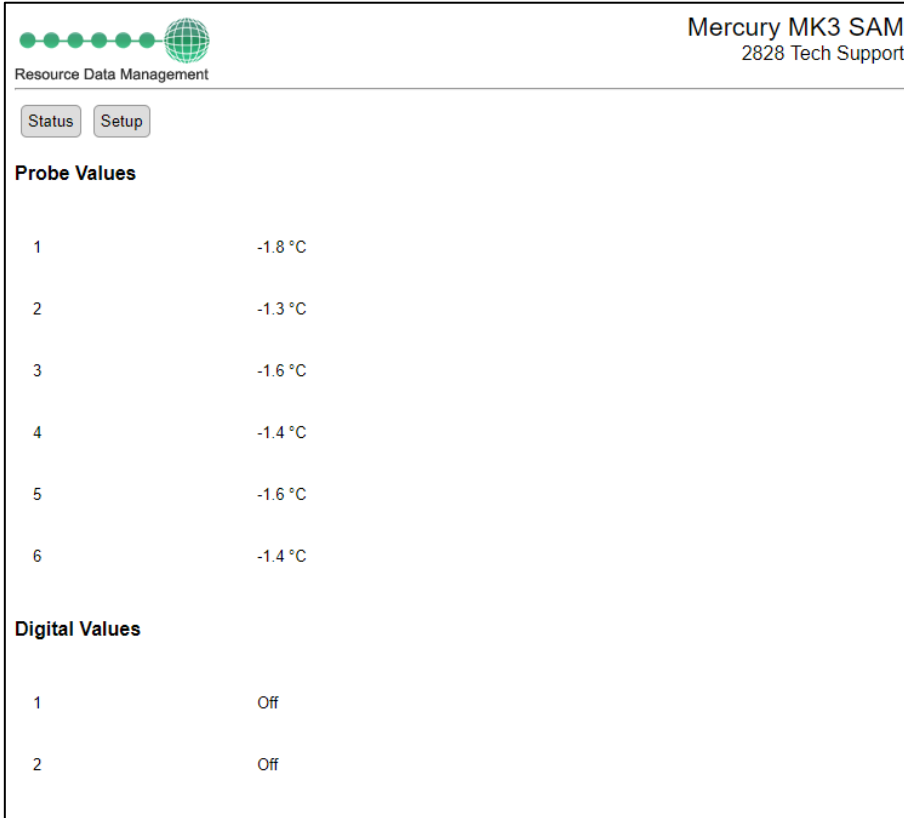
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Configuration

As mentioned, the configuration of the device must be done via the web interface through the IP communications port. The [Network Configuration](#) Section will outline how to assign an IP address to the unit.

Status

Upon accessing the device, the home page will be the status of the 6 analogue and 2 digital values;



The screenshot displays the web interface for the Mercury MK3 SAM. At the top left, there is a logo consisting of a series of green dots and a globe icon, with the text "Resource Data Management" below it. At the top right, the text "Mercury MK3 SAM" and "2828 Tech Support" is displayed. Below the header, there are two tabs: "Status" (selected) and "Setup". The main content area is divided into two sections: "Probe Values" and "Digital Values".

Probe Values	
1	-1.8 °C
2	-1.3 °C
3	-1.6 °C
4	-1.4 °C
5	-1.6 °C
6	-1.4 °C

Digital Values	
1	Off
2	Off

Setup

To configure the device, click on the tab 'Setup'. This will prompt you for a user name and password. As default, the device will ship with;

User Name: service

Password: 1234

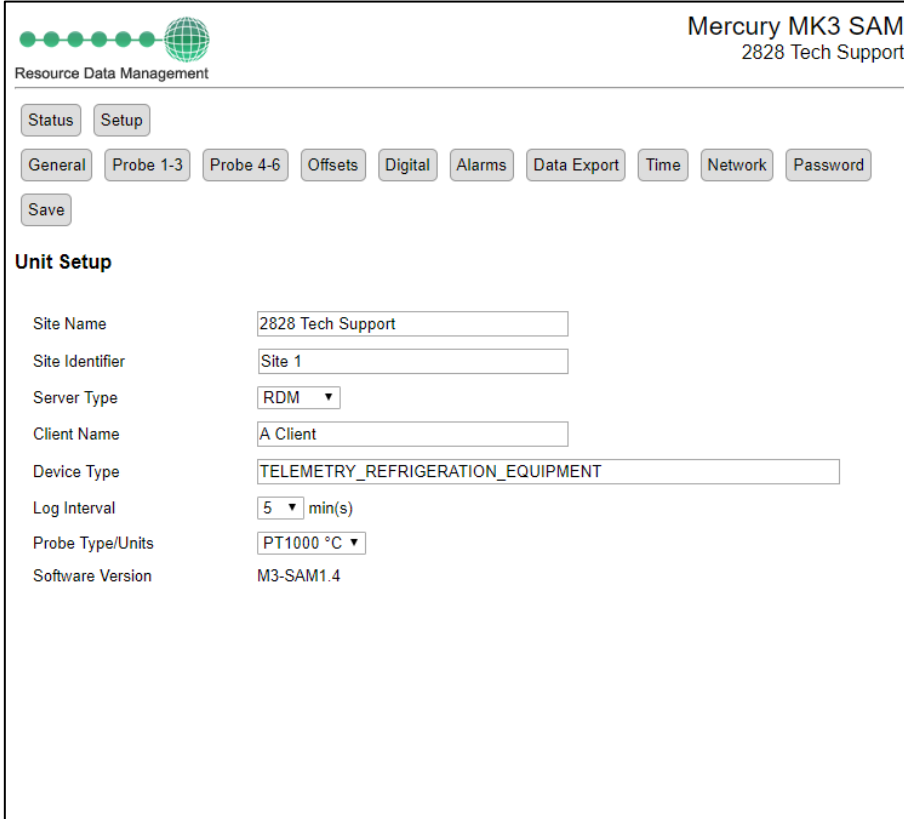
Note: the password can be changed within the [settings](#).

Within the Setup section it will show a further ten tabs detailing the items/settings that are configurable.



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General



The screenshot shows the Mercury MK3 SAM web interface. At the top right, it says "Mercury MK3 SAM" and "2828 Tech Support". Below this is the "Resource Data Management" header. There are two tabs: "Status" and "Setup". Under the "Setup" tab, there are several sub-tabs: "General", "Probe 1-3", "Probe 4-6", "Offsets", "Digital", "Alarms", "Data Export", "Time", "Network", and "Password". A "Save" button is located below these tabs. The "Unit Setup" section contains the following fields:

Site Name	2828 Tech Support
Site Identifier	Site 1
Server Type	RDM
Client Name	A Client
Device Type	TELEMETRY_REFRIGERATION_EQUIPMENT
Log Interval	5 min(s)
Probe Type/Units	PT1000 °C
Software Version	M3-SAM1.4

The above screen capture shows the fields that can be set in the General tab

- Site Name:** This is the site Description, visible on the main web page and incorporated into the data sent.
- Site Identifier:** This is the site name, incorporated into the data sent.
- Server Type:** Select the server the device will use to send data to. Currently only RDM or Verisae.
- Client Name:** Insert the client's name, incorporated into the data sent.
- Device Type:** Insert text string to define the type of unit.
- Log Interval:** Select from 1, 5, 15 or 60 minutes to specify the frequency of logging to be sent via the Data Export
- Probe Type / Units:** For the 6 analogue inputs, select the probe type to be used. Select from; PT1000, 2k, 470R, 700R, 3k, 2k25, 5k, 6k, 10k or 10k2 opting for °C or °F.
- Software Version:** This will outline the software version on the device.



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Probe 1-3 / Probe 4-6

Mercury MK3 SAM
2828 Tech Support

Resource Data Management

Status Setup

General Probe 1-3 Probe 4-6 Offsets Digital Alarms Data Export Time Network Password

Save

Probe Setup

Probe 1

Used

Controller Name

Item Name

Over Critical Disable

Over Critical Limit °C

Over Critical Delay min(s)

Over Non Critical Disable

Over Non Critical Limit °C

Over Non Critical Delay min(s)

Under Disable

Under Limit °C

Under Delay min(s)

Defrost

Recovery Delay min(s)

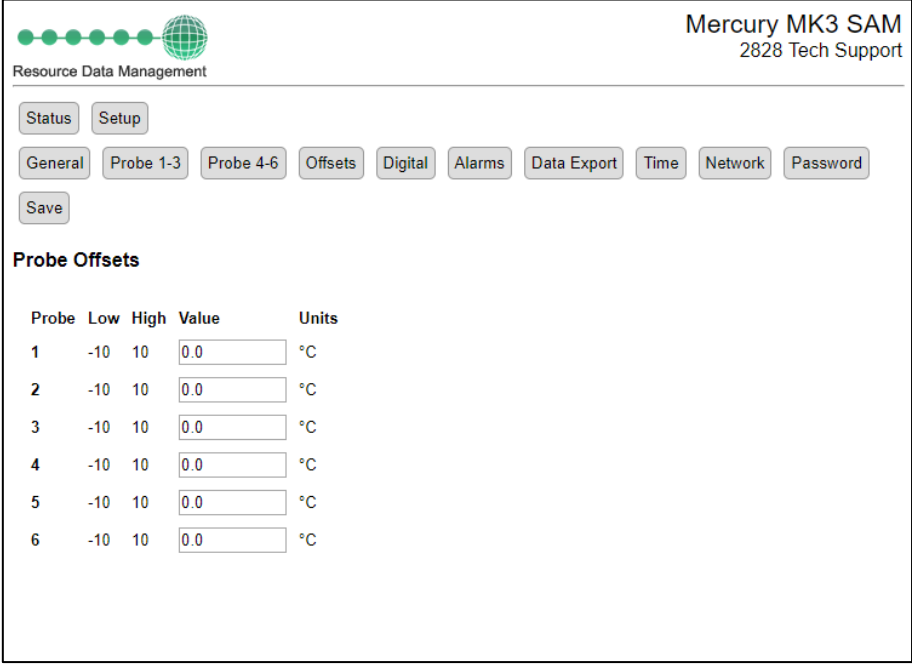
The above probe setup is identical for all analogue inputs 1 – 6:

- Used:** Checkbox to enable channel. To disregard probe input, leave unchecked.
- Controller Name:** Enter a name for the controller, this will be incorporated into the sent data
- Item Name:** Enter a name for the channel, this will be incorporated into the sent data
- Over Critical Disable:** Checkbox to disable the 'Over Critical Limit' alarms. When checked, the critical limit and delay will be ignored.
- Over Critical Limit/Delay:** Temperature of which the 'Over Critical Limit' alarm will be activated. The associated Delay, will stop the alarm being sent until the specified time has elapsed.
- Over Non Critical Disable:** Checkbox to disable the 'Over Non-Critical Limit' alarms. When checked, the non-critical limit and delay will be ignored.
- Over Non Critical Limit/ Delay:** Temperature of which the 'Over Non-Critical Limit' alarm will be activated. The associated Delay, will stop the alarm being sent until the specified time has elapsed.
- Under Disable:** Checkbox to disable the 'Under Limit' alarms. When checked, the low limit and delay will be ignored.
- Under Limit/ Delay:** Temperature of which the 'Under Limit' alarm will be activated. The associated Delay, will stop the alarm being sent until the specified time has elapsed.
- Defrost:** Select the input (Defrost 1 or Defrost 2) that will signify the device is in Defrost. If one of the [Digital Inputs](#) has been configured as a Defrost Input, it can be used to signal to a channel it's in defrost.
- Recovery Delay:** Time of which the channel is permitted to be above its alarm threshold following a 'defrost' signal allowing for time to 'recover'.



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Offsets



The screenshot shows the Mercury MK3 SAM Resource Data Management interface. At the top right, it says "Mercury MK3 SAM" and "2828 Tech Support". Below this is a navigation menu with buttons for "Status", "Setup", "General", "Probe 1-3", "Probe 4-6", "Offsets", "Digital", "Alarms", "Data Export", "Time", "Network", and "Password". A "Save" button is located below the navigation menu. The main content area is titled "Probe Offsets" and contains a table with the following columns: "Probe", "Low", "High", "Value", and "Units". The table lists six probes, each with a "Low" value of -10, a "High" value of 10, and a "Value" of 0.0. The "Units" column for all probes is °C.

Probe	Low	High	Value	Units
1	-10	10	0.0	°C
2	-10	10	0.0	°C
3	-10	10	0.0	°C
4	-10	10	0.0	°C
5	-10	10	0.0	°C
6	-10	10	0.0	°C

This page allows for offsets to be applied to the individual channels. This page will represent the same values as to what was inserted into the [oFst](#) menu via the front display. The temperature units will be automatically configured, depending on the probe type/ unit previously selected in the [General](#) tab.



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Digital

Resource Data Management

Mercury MK3 SAM
2828 Tech Support

Status Setup

General Probe 1-3 Probe 4-6 Offsets Digital Alarms Data Export Time Network Password

Save

Digital Setup

Digital 1

Type: Alarm

Controller Name: Plant 1

Item Name: Digital 1

Inactive Text: Off

Active Text: On

Alarm Delay: 20 min(s)

Digital 2

Type: Defrost 1

Controller Name: Plant 1

Item Name: Digital Input 2

Inactive Text: Off

Active Text: On

Alarm Delay: 20 min(s)

The two digital inputs are configurable from the 'Digital' tab;

Type:	Select from; Unused, Log, Alarm, Inverted Alarm, Defrost 1 or Defrost 2.
Unused:	The channel is not monitored and subsequently no logging data will be exported.
Log:	The channel will simply monitor the status of the digital input and be included in the exported data logs. No alarms will be generated.
Alarm:	The channel will monitor the status of the digital input, generate alarms (if in that state over the Alarm Delay period) and will be included in the exported data logs.
Inverted Alarm:	Will work similarly to the 'Alarm' mode, however the alarm state will be 'OK' when digital input is 'closed circuit' and in 'Alarm' when 'open circuit'.
Defrost 1/2:	Option to select the digital input as a defrost input. Once selected the defrost inputs can be 'mapped' to the probe channels .
Controller Name:	Name of the controller, this will be incorporated into the exported data.
Item Name:	Name of the channel, this will be incorporated into the sent data.
Inactive Text:	Within the main 'Status' page, it details the state of the Digital Input. When the input is inactive, this text will be visible.
Active Text:	When the digital input is activated, this text will be visible in the Status page.
Alarm Delay:	When the input is configured as an Alarm, the delay dictates the period, when input is activated, before it goes in to an 'Alarm State'.



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Alarms

Resource Data Management

Mercury MK3 SAM
2828 Tech Support

Status Setup

General Probe 1-3 Probe 4-6 Offsets Digital Alarms Data Export Time Network Password

Save

Alarm Setup

Probe Alarms

Over Critical Text

Over Non Critical Text

Under Text

Digital Alarms

Alarm Text

Alarm Destination

Enable

Server Address

Server Port

URL

HTTPS

Retries

Period min(s)

Test Frequency (0 - disable) min(s)

In addition to the alarm text string, within the 'Alarm' tab, is where the destination of the alarm traffic is configured with regards to server address.

Probe/ Digital Alarms: As default the probe critical, non-critical and under temperature alarms text strings are; 'Critical High', 'High' and 'Low' respectively. The digital alarm default is 'Alarm'. The strings can be changed to match the client's requirements.

Alarm Destination

The server type selected within the [General](#) tab will dictate the fields shown in this section. Prior to setting these fields the user should know the server details to which the alarms are to be sent. For more information please consult your IT representative or RDM Accounts manager.

- Enable:** Leave unchecked to disable all alarm traffic. Check the box to utilise the following fields to send alarm traffic.
- Server address:** Enter the address of the server to which alarms are to be sent. For example **server1.alarms.com**.
- Server port:** Enter the port of which alarms are to be sent to on the server.
- URL:** Enter the address path within the designated server. For example **/DataImport/client1/store37.aspx**
- Login/ Password/Page*:** Where there is security on the destination server, enter the login page's name and the security credentials.
- Headend*:** Enter the name of the headend or Gateway if required.
- HTTPS:** The data exported will use standard HTTP, to add the security protocol check the box.
Note: Only supports TLD1.2, using cypher TLS_RSA_WITH_AES_256_CRC_SHA256. It only does Hash function SHA256



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- Retries:** Enter the number of attempts the monitor will do to send the alarm to the alarm server.
- Period:** Time between retry attempts.
- Test Frequency:** To enable 'test alarms', for communication checks, enter a time value in minutes, for the frequency of the alarm. For example, to send a test alarm every hour, enter 60min. Entering '0' will disable the feature.

* **Note:** The fields Login, Password, Login Page and Headend will only be visible when setting up using the 'Verisae' server type.

Data Export

There are no logs visible within the device itself, they are stored and when set up, exported to a server. This page will allow the configuration of the server details.

The server type selected within the [General](#) tab will dictate the fields shown in this section. Prior to setting these fields the user should know the server details to which the alarms are to be sent. For more information please consult your IT representative or RDM Accounts manager.

- Enable:** When unchecked, the data export will not be carried out.
- Server address:** Enter the address of the server to which the exported data is to be sent. For example **Test1.Test.com**.
- Server port:** Enter the port of which the exported data is to be sent to on the server.
- URL:** Enter the address path within the designated server. For example **/Server/Test.aspx**
- Login/Password/Page*:** Where there is security on the destination server, enter the login page's name and the security credentials.
- Headend*:** Enter the name of the headend or Gateway if required.
- HTTPS:** The data exported will use standard HTTP, to add the security protocol check the box.
Note: Only supports TLD1.2, using cypher TLS_RSA_WITH_AES_256_CRC_SHA256. It only does Hash function SHA256
- Connect Interval:** Set the frequency of the data export.
- Connect Offset:** Define the minute of the hour for the device to connect/ export the data. This can be used to ensure different devices communicate at different times.

* **Note:** The fields Login, Password, Login Page and Headend will only be visible when setting up using the 'Verisae' server type.



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Time

The screenshot shows the Mercury MK3 SAM web interface. At the top right, it says 'Mercury MK3 SAM' and '2828 Tech Support'. Below this is a navigation menu with buttons for 'Status', 'Setup', 'General', 'Probe 1-3', 'Probe 4-6', 'Offsets', 'Digital', 'Alarms', 'Data Export', 'Time', 'Network', and 'Password'. The 'Time' button is highlighted. Below the navigation menu are 'Save' and 'Get PC Time' buttons. The main content area is titled 'Time Setup' and contains a date/time input field showing '09:27:06 20/07/2018'. There are two checkboxes: 'Use time from NTP server' (checked) and 'Use default gateway as NTP server' (unchecked). Below these is an 'NTP Server' input field containing '10.1.2.50'. The section below is titled 'Timezone Setup' and has a table with 'Year' and 'Rule' columns. The first row shows '----' in the Year column and 'GMT0BST-1,M3.L.0/01:00:00,M10.L.0/01:00:00' in the Rule column. There are three empty rows below it.

The Time on the monitor can be set from this tab. The time can be entered manually, and the device will use its internal clock for time keeping, or an NTP server can be entered for synchronising.

- Time Setup:** Provides fields to enter the exact time – format is HH:MM:SS DD/MM/YYYY
- Use NTP server:** Check the box to utilise a known NTP server. Enter the server’s IP details in the field provided.
- Use default gateway as NTP:** Check this box to use the devices gateway as a time server to sync with.

Timezone Setup: Within these fields, time zone rules can be applied. Depending on the time zone the unit is in, the local time is updated according to the stated rule. For example GMT is offset in March and October to accommodate British Summer Time. This rule is default – i.e. “GMT0BST-1,M3.L.0/01:00:00,M10.L.0/01:00:00”. Other possible rules;

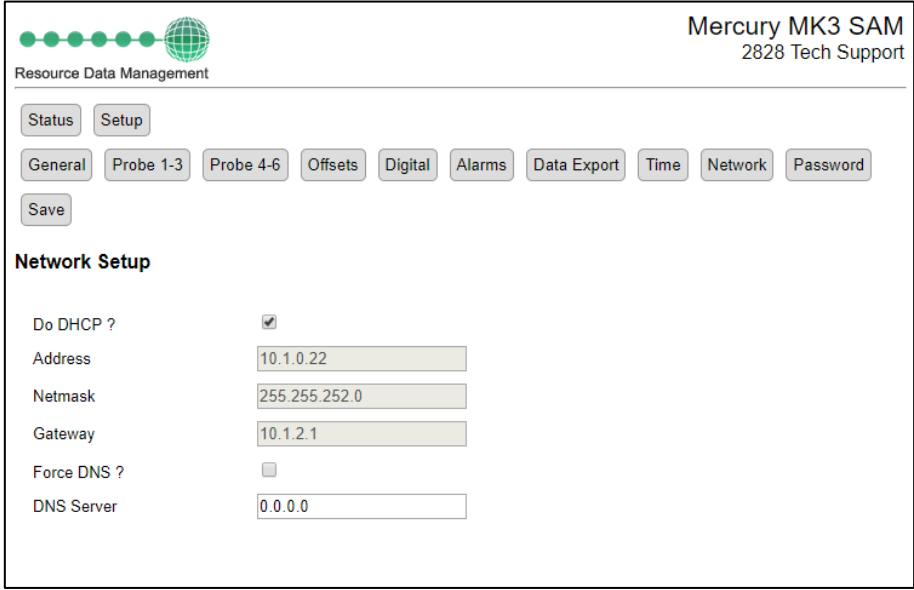
- Greenwich Mean Time: **GMT0BST-1,M3.L.0/01:00:00,M10.L.0/01:00:00**
- Eastern Standard Time: **EST5EDT4,M3.2.0/2:00:00M11.1.0/2:00:00**
- Central Standard Time: **CST6CDT5,M3.2.0/2:00:00M11.1.0/2:00:00**
- Mountain Standard Time: **MST7PDT6,M3.2.0/2:00:00M11.1.0/2:00:00**
- Pacific Standard Time: **PST8PDT7,M3.2.0/2:00:00M11.1.0/2:00:00**

For more time zone rules/options, please consult RDM technical support.



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Network



Mercury MK3 SAM
2828 Tech Support

Resource Data Management

Status Setup

General Probe 1-3 Probe 4-6 Offsets Digital Alarms Data Export Time Network Password

Save

Network Setup

Do DHCP ?

Address

Netmask

Gateway

Force DNS ?

DNS Server

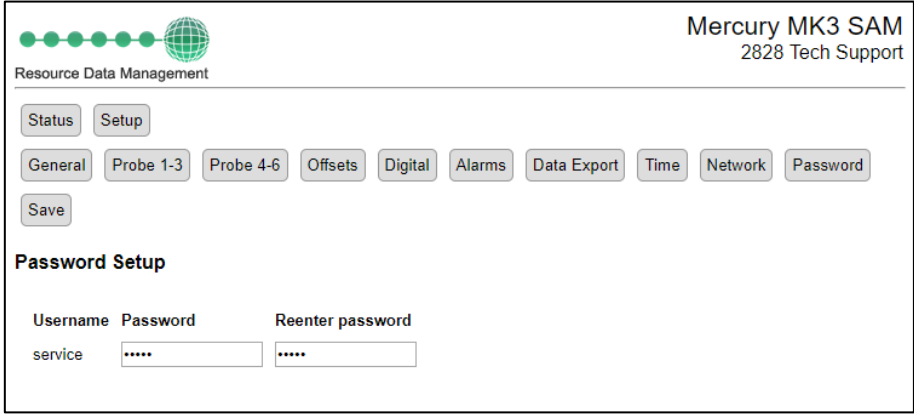
The network setup page allows for IP details to be inserted. If the unit was configured in the Net menu in via the display then these details will be represented here.

- DHCP:** When checked, the unit will automatically pick up IP details from a DHCP server it's attached to. The Address, Netmask and Gateway fields will be populated and greyed out once received IP configuration.
- Address:** When not using DHCP and a static address must be entered. Enter the IP details here.
- Netmask:** Enter the netmask of the IP network.
- Gateway:** Enter the gateway of the IP network.
- Force DNS:** If a specific DNS is to be used, check the box and manually type the IP address of it below in the field



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Password



The screenshot shows the Mercury MK3 SAM web interface. At the top left is the Resource Data Management logo. At the top right, it says "Mercury MK3 SAM" and "2828 Tech Support". Below the logo, there are two tabs: "Status" and "Setup". Under the "Setup" tab, there are several sub-tabs: "General", "Probe 1-3", "Probe 4-6", "Offsets", "Digital", "Alarms", "Data Export", "Time", "Network", and "Password". A "Save" button is located below the sub-tabs. The "Password Setup" section contains three columns: "Username", "Password", and "Reenter password". The "Username" field contains the text "service". The "Password" and "Reenter password" fields contain six asterisks (*****).

As default, to access the setup sections, the password for the **'service'** login is **'1234'**. To change it from defaults, enter the desired password here.

Note: without these credentials, no setting can be changed.

Logging

The device has limited logging capabilities therefore it is recommended to export logs if long term data retention is required. The unit can store up to 3500 log samples, therefore by selecting the log frequency of either 1, 5, 15 or 60 minutes it will dictate the period of data stored within the device.



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Specification

Mercury Mk3 Stand Alone Monitor - PR0740 MD IP SAM	
Power Requirements	
Supply Voltage Range	100 - 240 Vac \pm 10%
Supply Frequency	50 - 60 Hz
Maximum supply current	5.2 Amps (when relay 5 is fully loaded)
Typical supply current	<1 Amp
General	
Operating temperature range	-10°C to 60°C (14°F to 140°F)
Storage temperature range	-20°C to 65°C (-4°F to 149°F)
Environmental	Indoor use at altitudes up to 2000m, pollution degree 1, installation category II. Voltage fluctuations not to exceed \pm 10% of nominal voltage.
Size	78mm (W) x 36mm (H) x 110mm (D)
Approx. Weight	177 grams (6.24oz)
Safety	EN61010
EMC	EN61326; 2013
Ventilation	There is no requirement for forced cooling ventilation
Class 2 Insulation	No protective Earth is required and none should be fitted
Supply Fuse	The host equipment must provide a suitable external over-current protection device such as: - Fuse: 2A 240 Vac Anti-surge (T) HRC conforming to IEC 60127
Or MCB	2A, 240 VAC Type C conforming to BS EN 60898
Inputs	
Probe Input resistance	3.01K Ohms (for PTC or NTC type probes)
Probe Input type	Selectable.
Digital Inputs	Volt Free
Comms	
Ethernet Variant	IP comms.

Revision History

Revision	Date	Changes
V1.2	12/05/2016	New Product
V1.2a	03/03/2017	New documentation format.
V1.2b	17/05/2017	Operating temperature amended.
V1.2c	21/11/2017	Logging storage capacity defined.
V1.2d	12/07/2018	Pictures updated.
V1.4	20/07/2018	Support added for ActiveFM compatibility



Please ensure all power is switched off before installing or maintaining this product.

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