USERS GUIDE FOR S300RPTU REMOTE PROGRAMMING TEST TOOL AND S300SAT SATELLITE RELAY DEVICE

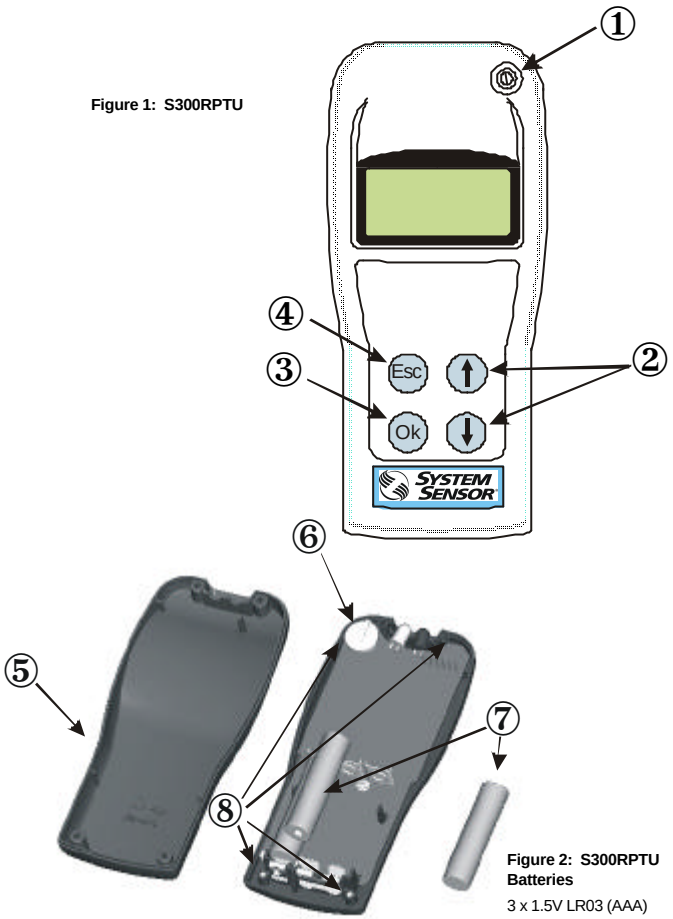


Figure 1: S300RPTU

Figure 2: S300RPTU Batteries

3 x 1.5V LR03 (AAA) Batteries Required.

INTRODUCTION

The S300RPTU Remote Programming and Test Tool is designed for communication with System Sensor 300 series detectors, permitting access to various functions and logs within the detectors.

Communication is achieved through the detector's indicator LED, and uses one of two methods:

1. Via an LED and Opto-diode built in to the S300RPTU, for close range (approximately 30mm) communication. This allows direct communication via the detector LED indicator.
2. Using radio communication via an S300SAT which can be clipped to the detector using proprietary access poles, allowing a range up to 8 m.

The S300RPTU is a menu driven device. With reference to figure 1, the controls for navigating through the menus are as follows:

① On/Off Switch
② Up/Down Arrows - to scroll through menus
③ OK button - Select required function
④ Esc - Returns to the previous menu

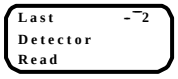
POWER ON

When the S300RPTU is turned on, the screen shown left will be displayed for approximately 5 seconds, and then will be replaced by the first of the main menu screens.

MAIN MENU

There are six main menu items as follows:

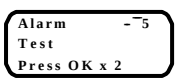
Reads the settings previously programmed into the detector being accessed including sensitivity, address, device type, LED operation and service date. **Refer to section 2.**



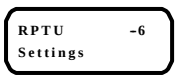
Displays the information acquired from the last detector read. **Refer to section 2.**

Programmes new settings such as address, sensitivity and mode of LED operation into the detector. **Refer to section 3.**

Checks that maintenance has been satisfactory, and if OK programmes the current date into the detector as the new service date. **Refer to section 4.**



Performs a detector Alarm Test. **Refer to section 5.**



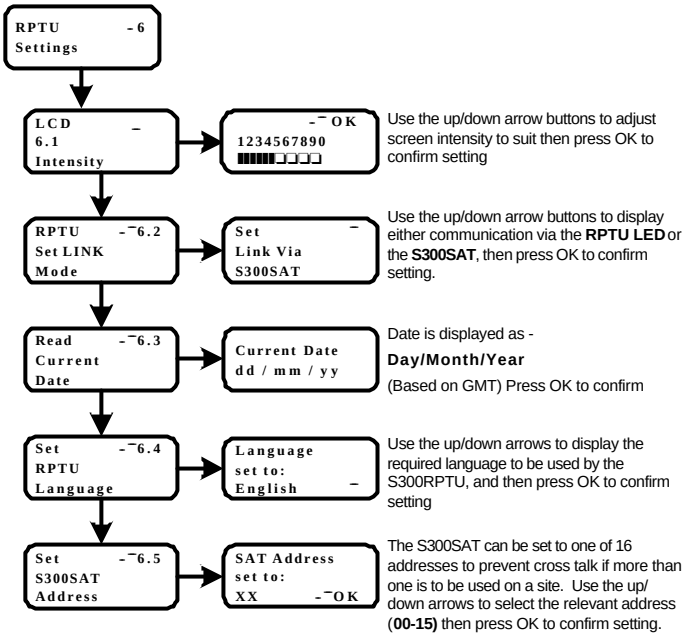
Allows the user to set the S300RPTU tool to suit requirements, including the tool operating language and communication method. **Refer to section 1.**

1: S300RPTU AND S300SAT SET UP

Prior to any communications with detectors, it is necessary to configure the S300RPTU and S300SAT. This procedure should only need to be carried out once, the settings then being retained until changed via this screen.

During the set-up procedure, ensure that only one S300RPTU and S300SAT pair are switched on within a 20m area.

Switch on both the S300 RPTU and S300SAT. Scroll down through the main menu screens to select "**RPTU Settings**". This gives access to set-up screens as follows:



Use the up/down arrow buttons to adjust screen intensity to suit then press OK to confirm setting

Use the up/down arrow buttons to display either communication via the **RPTU LED** or the **S300SAT**, then press OK to confirm setting.

Date is displayed as -

Day/Month/Year

(Based on GMT) Press OK to confirm

Use the up/down arrows to display the required language to be used by the S300RPTU, and then press OK to confirm setting

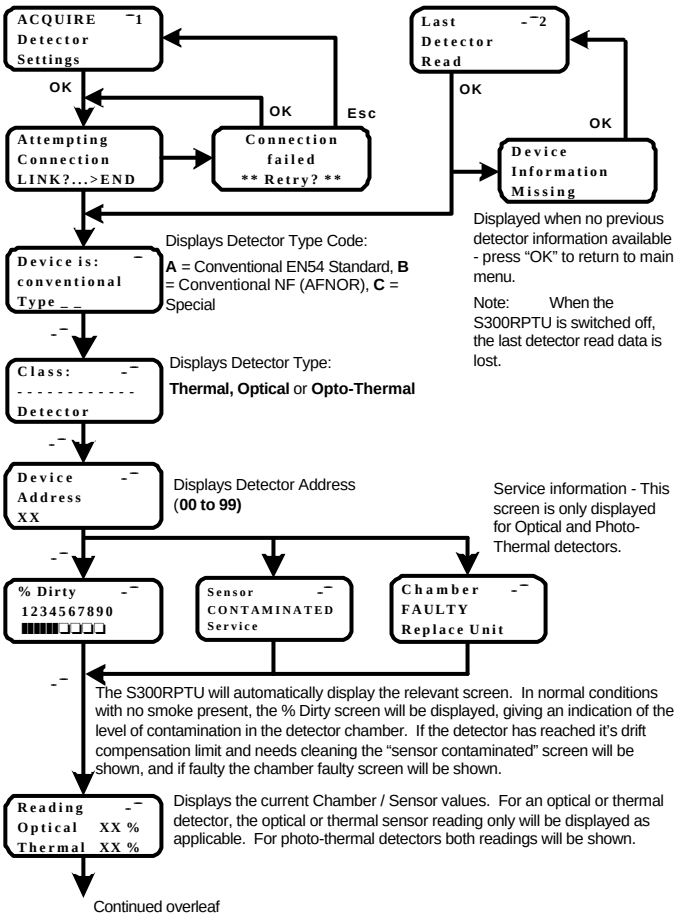
The S300SAT can be set to one of 16 addresses to prevent cross talk if more than one is to be used on a site. Use the up/down arrows to select the relevant address (**00-15)** then press OK to confirm setting.

Note that only one new setting can be made each time the RPTU settings screen is accessed. For each new setting, the S300RPTU will display the ready screen as follows for a few seconds, then return to the "Acquire Detector Settings" screen.

The exception to this is the S300SAT address screen, where the RPTU will briefly display "Attempting Connection" before the ready screen appears.

2: ACQUIRE DETECTOR SETTINGS AND LAST DETECTOR READ

Except where indicated, the same operating screens apply to both acquisition of the detector settings and the display of information from the last detector read:



Displayed when no previous detector information available - press "OK" to return to main menu.

Note: When the S300RPTU is switched off, the last detector read data is lost.

Displays Detector Type Code:

A = Conventional EN54 Standard, **B** = Conventional NF (AFNOR), **C** = Special

Displays Detector Type:

Thermal, Optical or **Opto-Thermal**

Displays Detector Address (**00 to 99)**

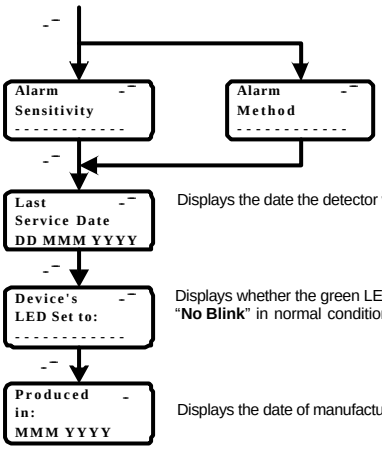
Service information - This screen is only displayed for Optical and Photo-Thermal detectors.

The S300RPTU will automatically display the relevant screen. In normal conditions with no smoke present, the % Dirty screen will be displayed, giving an indication of the level of contamination in the detector chamber. If the detector has reached it's drift compensation limit and needs cleaning the "sensor contaminated" screen will be shown, and if faulty the chamber faulty screen will be shown.

Displays the current Chamber / Sensor values. For an optical or thermal detector, the optical or thermal sensor reading only will be displayed as applicable. For photo-thermal detectors both readings will be shown.

Continued overleaf

ACCESS MENUS



Will display "**Alarm Sensitivity"** for photo and photo-thermal or "**Alarm Method**" for thermal detectors.

Level will be "**Low**", "**Medium**" or "**High**"

Method will be "**Fixed Temp**" or "**Rate of Rise**"

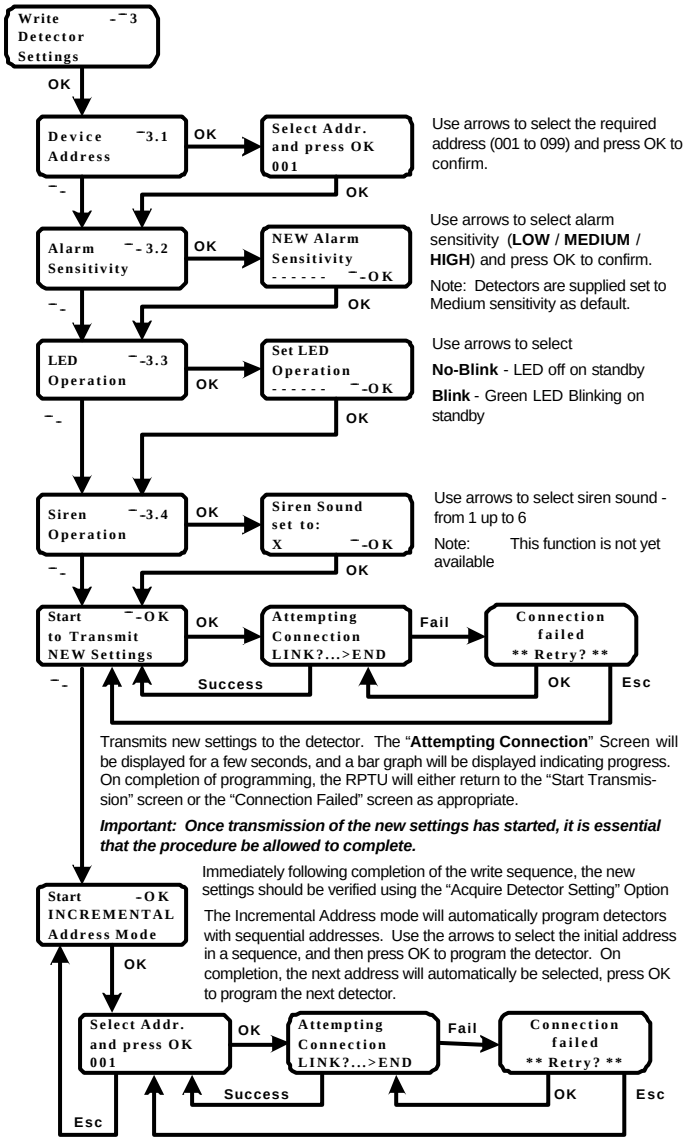
Displays the date the detector was last serviced.

Displays whether the green LED on the detector is set to "**Blink**" or "**No Blink**" in normal conditions.

Displays the date of manufacture

3: WRITE DETECTOR SETTINGS

Selects and writes new settings to the detector.



Use arrows to select the required address (001 to 099) and press OK to confirm.

Use arrows to select alarm sensitivity (**LOW** / **MEDIUM** / **HIGH**) and press OK to confirm.

Note: Detectors are supplied set to Medium sensitivity as default.

Use arrows to select

No-Blink - LED off on standby

Blink - Green LED Blinking on standby

Use arrows to select siren sound - from 1 up to 6

Note: This function is not yet available

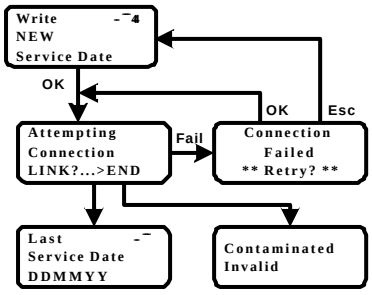
Transmits new settings to the detector. The "**Attempting Connection**" Screen will be displayed for a few seconds, and a bar graph will be displayed indicating progress. On completion of programming, the RPTU will either return to the "Start Transmission" screen or the "Connection Failed" screen as appropriate.

Important: Once transmission of the new settings has started, it is essential that the procedure be allowed to complete.

Immediately following completion of the write sequence, the new settings should be verified using the "Acquire Detector Setting" Option

The Incremental Address mode will automatically program detectors with sequential addresses. Use the arrows to select the initial address in a sequence, and then press OK to program the detector. On completion, the next address will automatically be selected, press OK to program the next detector.

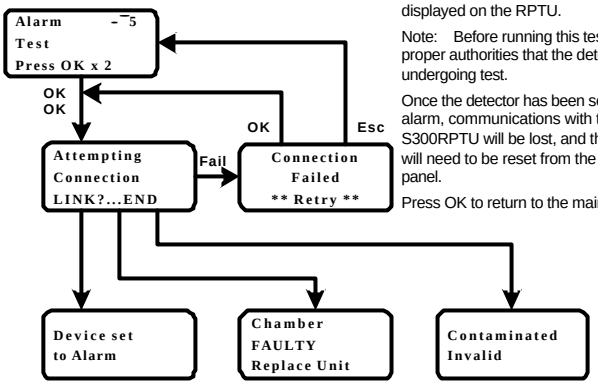
4: WRITE NEW SERVICE DATE



If the detector has been satisfactorily serviced, this function will write the current date to the detector as it's new service date, otherwise the S300RPTU will display a warning that the detector is dirty or contaminated. If the date has been correctly programmed, the current date will be displayed on the S300 RPTU screen.

5: ALARM TEST

This will force the detector to run a chamber test and, provided the chamber is good, set the alarm flag to put the detector into alarm. If the chamber is faulty or contaminated the relevant screen will be displayed on the RPTU.



Note: Before running this test, notify the proper authorities that the detector is undergoing test.

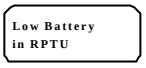
Once the detector has been set into alarm, communications with the S300RPTU will be lost, and the detector will need to be reset from the control panel.

Press OK to return to the main menu

6: OTHER SCREENS

Other screens that may appear at any time include the following:

Batteries in the S300RPTU need replacing. With reference to the diagram on the front page:

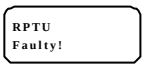


The battery is accessed by unscrewing the four screws ⑧ and removing the rear cover.

Replacement batteries ⑦ are 3 x LR03.AAA Size 1.5V. Ensure that correct polarity is used.

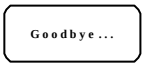
WARNING: Do not remove the back up button cell ⑥ at any time. This will cause RPTU clock information to be lost, and the unit to stop working. Do not tamper with any part of the circuit except the main batteries or permanent damage may be caused.

Batteries in the S300STU Satellite unit need replacing. See S300STU instructions below for details.



Loss of information on the real time clock on the RPTU. This will disable any further operation except to turn the unit off.

Note: If this message appears, the S300 RPTU must be returned to System Sensor for repair and reprogramming.

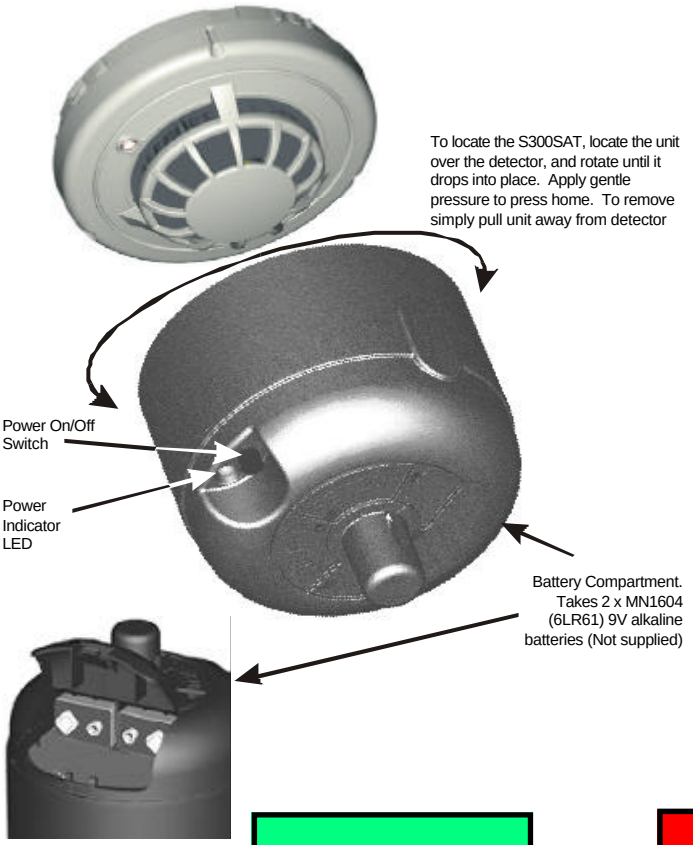


Displayed when the S300RPTU is switched off.

7: S300SAT SATELLITE TEST UNIT

The S300SAT provides a radio link for communications between the S300RPTU tool and a series 300 detector over distances up to approximately 8 m. It clips directly into position on the detector, with the use of either a standard System Sensor or, via an adaptor, No Climb Products access poles.

To prevent cross communication where more than one unit is in use on a single site, the S300SAT and S300RPTU may be set to an address for 00 to 15 - See RPTU setup for details.



To locate the S300SAT, locate the unit over the detector, and rotate until it drops into place. Apply gentle pressure to press home. To remove simply pull unit away from detector

ACCESS MENUS