

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

Figure 1: S300RPTU

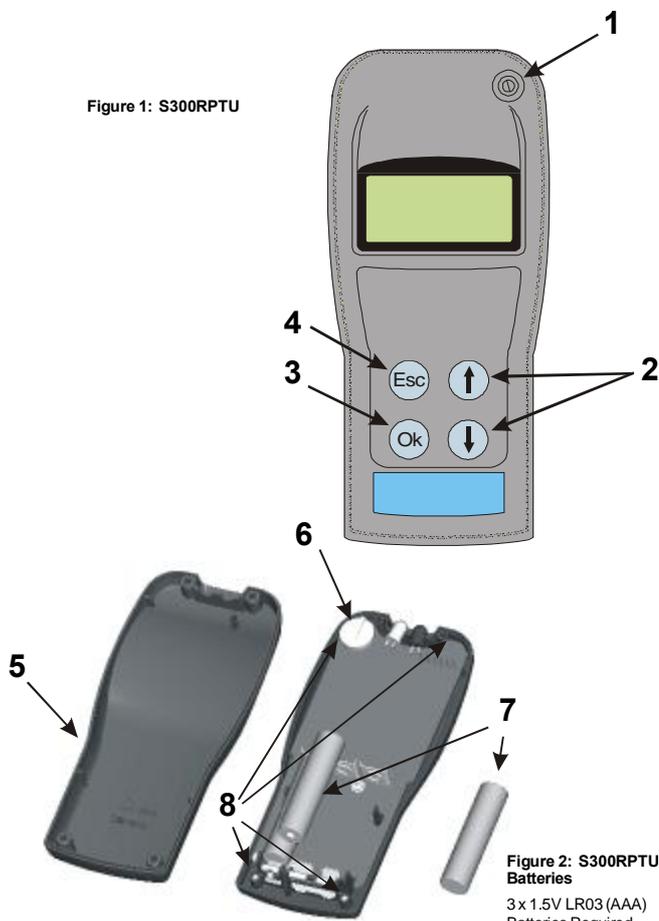


Figure 2: S300RPTU Batteries
3 x 1.5V LR03 (AAA) Batteries Required.

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 4.5m.

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

Series 300
RPTU - v.1.5
*** READY ***

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:

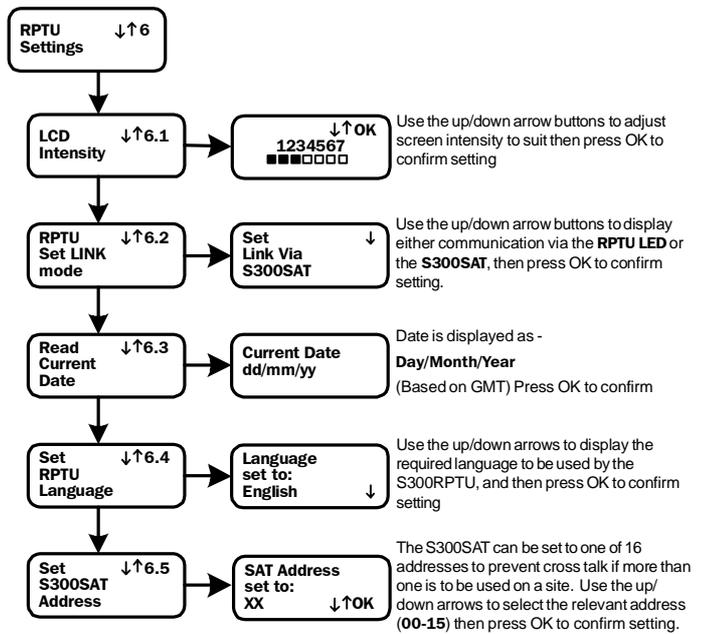
- ACQUIRE Detector Settings** ↓1
Reads the settings previously programmed into the detector being accessed including sensitivity, address, device type, LED operation and service date. Refer to section 2.
- Last Detector Read** ↓↑2
Displays the information acquired from the last detector read. Refer to section 2.
- Write Detector Settings** ↓↑3
Programmes new settings such as address, sensitivity and mode of LED operation into the detector. Refer to section 3.
- Write NEW Service Date** ↓↑4
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.
- Alarm Test** ↓↑5
Press OK x 2
Performs a detector Alarm Test. Refer to section 5.
- RPTU Settings** ↑6
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 10m 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:

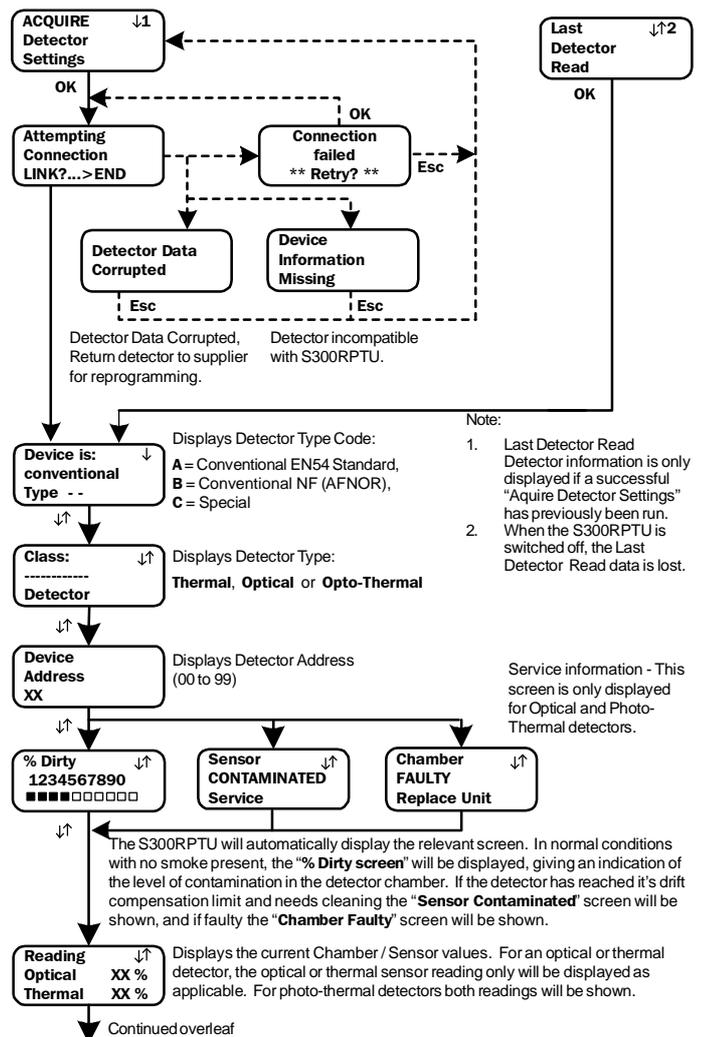


Note that only one new setting can be made each time the RPTU settings screen is accessed. For each new setting, the S300RPTU will display the ready screen as follows for a few seconds, then return to the "RPTU Settings" screen.

*** Ready ***
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:



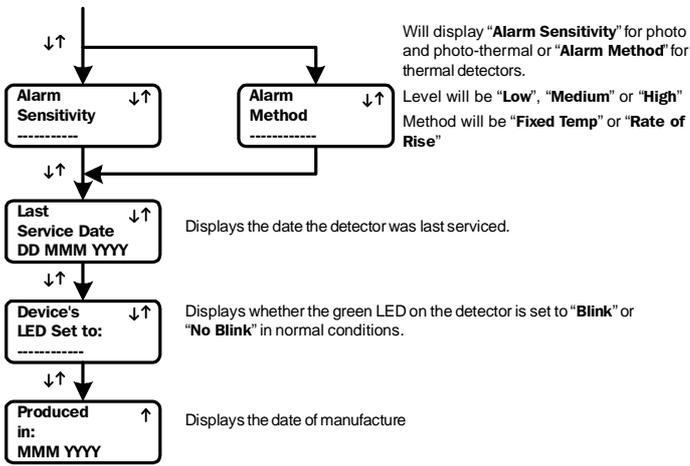
- Note:
1. Last Detector Read Detector information is only displayed if a successful "Acquire Detector Settings" has previously been run. When the S300RPTU is switched off, the Last Detector Read data is lost.
 - 2.

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 its drift compensation limit and needs cleaning the "Sensor Contaminated" screen will be shown, and if faulty the "Chamber Faulty" screen will be shown.

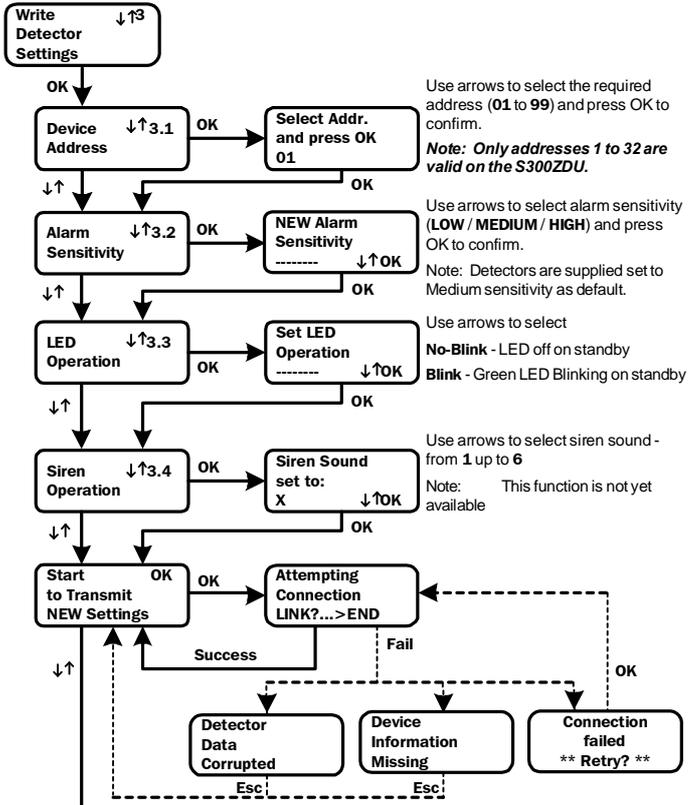
Reading Optical XX % Thermal XX %
Displays the current Chamber / Sensor values. For an optical or thermal detector, the optical or thermal sensor reading only will be displayed as applicable. For photo-thermal detectors both readings will be shown.

Continued overleaf



3: WRITE DETECTOR SETTINGS

Selects and writes new settings to the detector.



From the "Start to Transmit NEW Settings" Screen, press OK to send 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 successful completion of programming, the RPTU will return to the "Start Transmission" screen.

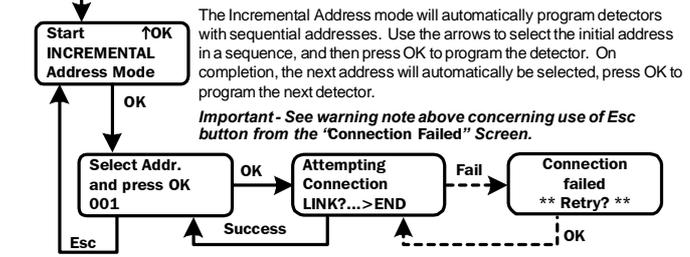


Note: It is possible to return to the "Start to Transmit NEW Settings" Screen directly from the "Connection Failed" screen by pressing Esc once if communications were not been established, or twice if the bargraph is displayed on the screen before communications were lost, and a sensitivity change was requested. However extreme caution should be exercised: If communications with a detector had started, then using the Esc button to return to the "Start to Transmit NEW Settings" screen can cause the detector's data to be lost, and the detector will have to be returned to the supplier for reprogramming.

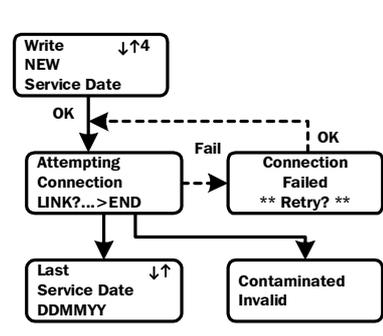
The "Device information Missing" screen appears to indicate that communication has been attempted with an incompatible detector type for example an ECO1000. Press "Esc" to return to the "Start to Transmit NEW Settings" Screen.

The "Detector Data Corrupted" screen will appear if an attempt is made to reprogramme a detector which has previously been corrupted. Press "Esc" to return to the "Start to Transmit NEW Settings" Screen.

Immediately following completion of the write sequence, the new settings should be verified using "Acquire Detector Settings", see section 2.



4: WRITE NEW SERVICE DATE

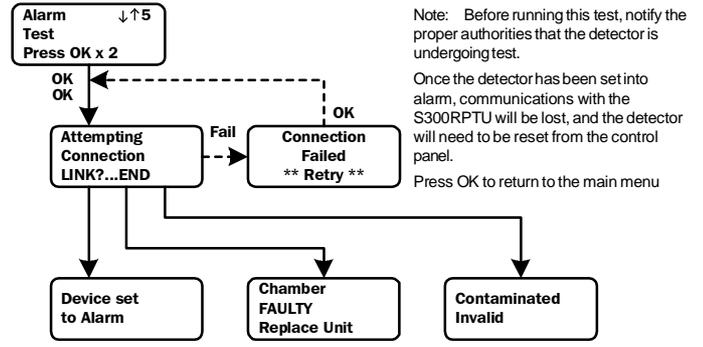


If the detector has been satisfactorily serviced, this function will write the current date to the detector as it's new service date, otherwise the S300RPTU will display a warning that the detector is dirty or contaminated. If the date has been correctly programmed, the current date will be displayed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

Note: If Esc is pressed from the "Connection Failed Screen", it is possible that an incorrect service date would be recorded, however this will not affect the functioning of the detector.

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.



6: OTHER SCREENS

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

- Low Battery in RPTU**
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.
- Low Battery in S300SAT**
Batteries in the S300SAT Satellite unit need replacing. See S300SAT instructions below for details.
- RPTU Faulty!**
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.
- Goodbye ...**
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 4.5m. 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.

