# satronic
A Honeywell Company

**SatroPen**

# Hand-held terminal

**Hand-held terminal to display the lockout code and flame signal of digital burner control boxes of the series Dxx.**

The hand-held terminal SatroPen is used to access the communication module „SatroCom" of the digital burner control boxes made by satronic. In the simplest format the SatroPen displays the cause of the present lockout or during start and operation the actual flame signal as a percentage. This information allows for quick and easy fault diagnoses.

## TECHNICAL DATA

| | |
|---|---|
| Type | battery-operated hand held terminal for SatroCom |
| Size | 130 x 23 x 18 mm |
| Weight | 65 Gramms (incl. batteries) |
| Ambient temp. | 0 - 40° C |
| Surface | resistant against oil and the usual cleaning agents |
| Energy supply | 2 batteries type AAA, ideally alkalyne (operation with rechargeble NiCad cells is not possible) |
| Duration of operation | 60 h at normal usage |

SatroPen is a electronic precission device; careful treatment is recommended for a long usage (e.g. like a cellular phone)

For a optimized data transfer, the following notes have to be considered:

- sensor (SatroPen) and reset button (control box) have to be clean
- SatroPen is hold ideally at the reset button, the cams at the front are of help to do that
- the distance between the SatroPen and the control box should not be more than 5 cm. The axial alignement of the SatroPen and the control box is of great importance. Tilted or staggered alignement do not allow a data transfer.

## OPERATION

1. insert 2 new alkalyne batteries of the size AAA into the SatroPen
2. apply the lockout-code label with the preferred language
3. to read the flame signal:

   – the **burner** has to be in **start- or running position**

   – switch on the SatroPen by pressing briefly the button.
     **Display: – – –**

   – hold the SatroPen with its front to or close to the reset button

   – the current flame signal is displayed.
     **Display: nnn %** ◆➤
     a flame signal exceeding 100% is necessary for a reliable operation

   – by taking the SatroPen away from the reset button, the most recently received flame signal value is put into its ─memory.
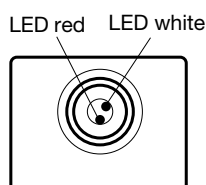     **Display: nnn% HOLD** ◆➤

4. to read the lockout codes:
   - the burner has to be in lockout position (power still applied)
   - switch on the SatroPen by pressing briefly the button.
     **Display: – – –**
   - hold the SatroPen with its front to or close to the reset button
   - lockout code is displayed
     e.g. **Display: 1 ⊗**
   - description of the lockout cause according the enclosed label enclosed:
     code 1 = no flame established
   - by taking the SatroPen away from the reset button, the most recently received flame signal value is put into its memory.
     **Display: 1 ⊗ HOLD**

5. further measuring can be performed after a brief pressing of the button.
   **Display: – – –**
6. SatroPen switches off automatically after 10 minutes without data received

**Important notes:**
If the flamesignal is displayed as "< 100% ⬤➤ " or "> 100% ⬤➤ " in a blinking manner instead as above described, the control box in this case is of a variation which is not recognized by the SatroPen. At least it can be decided wether the flame signal is sufficient or not. For an accurate reading, a SatroPen of the newest type has to be used

On certain customized control boxes, the data communication is not enabled or coded. If the SatroPen is used on one of these control boxes, it can wether display the flame signal nor the lockout code. The display will show an "E" (error). Please consult in this case the manufacturer of that burner.

LED red   LED white

The SatroPen can exclusivly be used on digital burner controls of the series Dxx which feature an IR interface. This can be identified by:
- identification of the model on the control's label, e.g. DMG 970 **Mod.01**
- 2 LED' s below the reset button (1 red, 1 white)

For additional support about the operation and usage of the SatroPen, please contact your burner manufacturer or distributor.

## REPLACEMENT OF BATTERIES

With a new set of alkalyne batteries of the size AAA, the duration of operation is approx. 60 hours (at normal usage). About 10 hours before the batteries reach their end-of-life, a blinking symbol appears on the display. Please pay attention to the polarity symbols when inserting the batteries.

## SATROCOM

All digital burner control boxes of the series Dxx feature an innovative communication facility. Detailed information about he last to lockouts, graphic display of  the active burner components, the supply voltage, the flame signal and further information are displayed on a PC or a palmtop computer. In addition to this, extensive statistic analyses can be made and the data sets can be put to a database. Please contact your burner manufacturer for further information.

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**ORDERING INFORMATION**

| ITEM | DESIGNATION | ITEM NO. |
|---|---|---|
| Hand-held terminal (without batteries, with label in D, E, F, I and NL) | SatroPen | 18450 |

Specifications subject to change without notice.

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