Congratulations!
With your purchase you have decided on a high-quality product of ecom GmbH.
Get to know the product before you start using it while reading carefully the following instructions of use and the safety indications! Use the product only as described and only for the given areas of application in order to ascertain its longevity!

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Application

The read-out head ecom-AK enables the recall of data made available by digital firings automats.
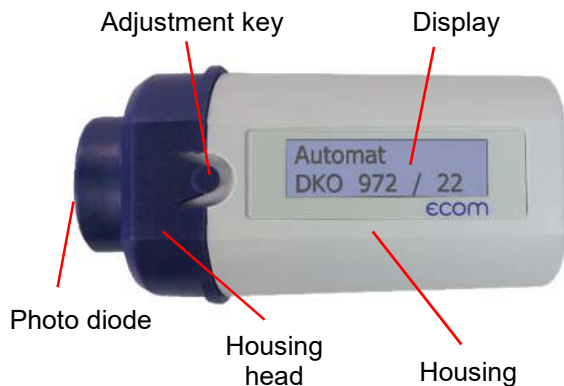
Information like trouble sources, error history, flame signal and operation voltage are received by the ecom-AK as optical signal at the reset button of the firing automat and shown on the graphic display. The ecom-AK is able to identify the make and the model of the following firing automats:

Siemens-Landis & Staefa: LMG, LMO, LME
Honeywell-Satronic: Dxx, Dxx-N, SH, SH-N, SG, SG-N

(DKO 970, DKO 972, DKO 974, DKO 976, DKO 992, DKW 972, DKW 976, DMO 976, DIO 974, DIO 976, DKG 970, DKG 972, DLG 974, DLG 976, DMG 970, DMG 971, DMG 972, DMG 973, DMG 991, DVI 980, DVI 982, SH 11x, SH 21x, SH 12x, SH 23x, SG 11x, SG 51x, SG 13x, DKO 970-N, DKO 972-N, DKO 974-N, DKO 976-N, DKO 992-N, DKO 996-N, DKW 972-N, DKW 976-N, DMO 976-N, DIO 974-N, DIO 976-N, DKG 970-N, DKG 972-N, DLG 974-N, DLG 976-N, DMG 970-N, DMG 971-N, DMG 972-N, DMG 973-N, DMG 991-N, DVI 980-N, DVI 982-N, SH 11x-N, SH 21x-N, SH 12x-N, SH 23x-N, SG 11x-N, SG 51x-N, SG 13x-N)

Instrument Design

Adjustment key
Display
Photo diode
Housing head
Housing

Automat
DKO 972 / 22
ecom

Battery Change

Both 1.5 V AA (Mignon) batteries must be changed when the capacity indicator blinks.
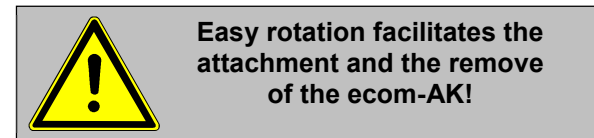
Proceed as follows:
● Press the lock located at the housing head inwards.
● Remove housing head forward.
● Detach board carefully.
● Change batteries (observe polarity).
● Rebuild ecom-AK in reverse order.

> ⚠ **Always deposit used batteries at the specific collecting points!**

Starting Up

> ⚠ **Easy rotation facilitates the attachment and the remove of the ecom-AK!**

● Put the firing automat in diagnosis mode (only Siemens automats):
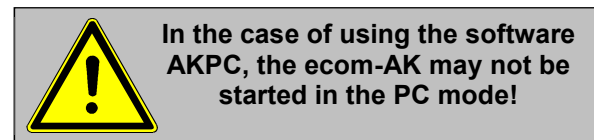
Firing automat in **Operating position**:
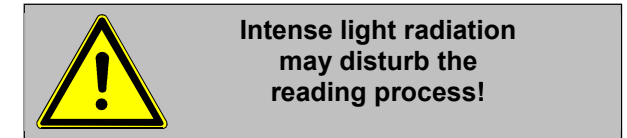Press reset button for at least 3 seconds.

Firing automat in **Lockout position**:
Press reset button for at least 3 seconds and press reset button again for at least 3 seconds.

● Fix ecom-AK on reset button.
● Switch on ecom-AK while pressing on adjustment key (keep pressing the adjustment key until „PC mode" is displayed, if the ecom-AK should be used with PC software from the companies Satronic or Siemens).
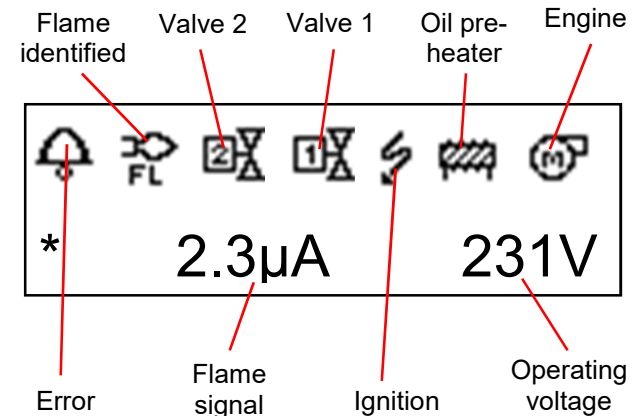
> ⚠ **In the case of using the software AKPC, the ecom-AK may not be started in the PC mode!**

● The ecom-AK is searching for automat information (if no signal is identified after 2 minutes, the ecom-AK switches off).

> ⚠ **Intense light radiation may disturb the reading process!**

Data Illustration

The ecom-AK reads out the data and displays the type designation of the automat. Use the adjustment key to call up all information available one after the other:

1. Burner operation stand (active components) is displayed graphically:

Flame identified
Valve 2
Valve 1
Oil pre-heater
Engine

* 2.3µA 231V

Error
Flame signal
Ignition
Operating voltage

2. Flame signal (current flame signal - minimum signal)
3. Reserve safety time (difference between flame identification and safety time end - Satronic automats only)
4. Disturbances:
Satronic: Indication of current error and of the last 2 errors (error description, flame signal with operation voltage by disturbance and time of interference cut off are displayed in 3-seconds alternation)
Siemens: Indication of the current error and of the last 5 errors (with number of burner starts by disturbance occurrence)

5. Statistics:

Satronic: Indication of errors number at a total, number of errors „Stray light", number of errors „no flame after safety time", number of errors „Loss of flame", total number of burner starts, number of burner starts since reset of service counter.
Siemens: total number of burner starts, number of burner starts since reset of service counter.

6. Monitoring times of firing automats

> ⚠️ **Type and volume of data vary depending on type and software version of the firing automat!**

Switch-Off / Auto-Off

Press the adjustment key longer than 4 seconds to switch off (if you quit pressing within the 4 seconds, the ecom-AK shall jump back to the initial display). If no key is pressed within 10 min. of operation, so the display lighting switches off. After 60 min. the instrument switches off.

Change language

Several languages are stored in the ecom-AK. To set a different language, proceed as follows:
● Press and hold the adjustment key until Language: English appears in the display.
● Select the required language with the adjustment key.
● ecom-AK starts in the selected language after approx. 5 seconds.

Technical Data

Power supply:	2 x Batteries AA; 1,2V
or	2 x Batteries AA; 1,5V
Power consumption:	ca. 100 mA
Storage temperature:	-20°C to +50°C
Operating temperature:	-20°C to +50°C
Weight:	150 g (with batteries)
Dimensions:	88 x 41 x 32 mm

Delivered with protective bag & 2 batteries

Subject to technical changes
05.2019

INTELLIGENT MESSEN!
MEASURE WITH INTELLIGENCE!

ECOM®

Operating Instructions

ECOM® AK