

# Environmental declaration

**Product name:** Kamstrup 351  
Kamstrup 382

**Product application:** kWh Meter

**Transport regulations:** None

**Producer:** Kamstrup A/S  
Industrivej 28, Stilling  
DK-8660 Skanderborg  
Denmark

**Environmental policy:** See Kamstrups Web site [WWW.Kamstrup.com](http://WWW.Kamstrup.com)

**Product materials:**

<i>Material</i>	<i>Weight % *</i>
Polycarbonate	44
Polyester	1
Silicone (only in Kamstrup 382)	1
Iron/steel	7
Copper	6
Brass	3
Circuit board with components	33
Liquid Crystal Display	1
Battery (only in Kamstrup 351 and configurations with modem module)	4

\* Approximately values that varies dependent of meter type and configuration.

**Undesirable substances:** (According to national Danish list)

- Lead (in the soldering alloy)
- Brominated flame retardants (in the circuit board material, 1-2 % TBBA, small amounts may also be present in the components on the circuit board)
- Hexavalent chromium (yellow surface treatment on iron/steel parts)

**Packing materials:**

<i>Material</i>	<i>1 pcs box weight</i>	<i>10 pcs box weight</i>
Recycled cardboard	0.130 kg	1 kg

Recommended disposal: Cardboard recycling

**Production:** All activities at Kamstrups facility takes place in accordance with Kamstrups certified ISO 14001 Environmental management system. (copy of certificate can be delivered upon request).

Electrical power consumption related to the major parts/processes in the raw materials phase plus the production phase of one kWh meter is approximately 18 kWh.

**Environmental impact from use of the product:**

**Power consumption:** 0.45 W  
(approximately value that varies slightly dependent of meter type and configuration)

**Emissions to air:** None

**Emissions to ground water:** None

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**Scrapping by Kamstrup:**

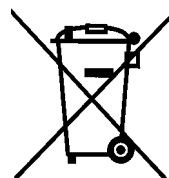
The customers are offered the possibility to return worn out Kamstrup meters to Kamstrup for scrapping/recycling, if contractually agreed.

When the kWh meters are scrapped by Kamstrup approximately 70 % of their weight is being recycled.

**Scrapping by the customer:**

Scrapping must be in accordance with local regulations. In order to facilitate recycling of materials, Kamstrup recommends that the meters are separated in the parts listed below:

<b>Part:</b>	<b>Primary materials:</b>	<b>Recycling:</b>
Housing	Polycarbonate	Yes
Front plate	Polyester	Yes
Wires (only in Kamstrup 382)	Copper & silicone	Yes
Screws, posts, springs	Iron/steel	Yes
Terminals	Copper	Yes
Connection plates	Brass	Yes
Circuit board with components	Epoxy, glass fibre, copper, tin, lead, silver & electronic components	Yes
Liquid Crystal Display	Glass	Yes
Battery (only in Kamstrup 351 and configurations with modem module)	Lithium	No



The meter must not be disposed of as regular waste.

**Special handling precautions when scrapping:**

**Liquid Crystal Display:** Do not break the glass.

**Lithium battery:** Do not short the lead wires.  
Do not dismantle or burn the battery.

**Further questions:**

Contact Kamstrups Quality & Environmental department

**Telephone:** +45 89 93 10 00

**Telefax:** +45 89 93 10 01

**E-mail:** Kamstrup@kamstrup.dk