

Environmental declaration

Product name:	MULTICAL [®] type 66-CDE/66-ST/66-MP
Product application:	Energy meter
Transport regulations:	<p>With battery supply: ADR, UN 3091 class 9 (lithium battery in equipment)</p> <p>With mains supply: None</p>
Producer:	Kamstrup A/S Industrivej 28, Stilling DK-8660 Skanderborg Denmark
Environmental policy:	See Kamstrups Web site WWW.Kamstrup.com

Product materials:	Material	Weight % (approx. values, varies dependent of meter type and configuration)	
		With mains supply	With battey supply
	Styrene-Acrylonitrile (SAN) *	15	14
	Acrylonitrile-Butadiene-Styrene (ABS) *	7	6,5
	Polypropylene (PP) *	16	15,5
	Polycarbonate (PC) *	6	5,5
	Sarlink gaskets	1	0,5
	Silicone wire insulation	10	9
	Copper	10	9
	Iron/steel	9	7
	Circuit boards with components	22	13
	Liquid Crystal Display	2,5	2
	Batteries	1,5	18

* Plastic

Undesirable substances: (According to national Danish list)	<ul style="list-style-type: none"> - Lead (in the soldering alloy) - Brominated flame retardants (in the circuit board material (approx. 15 %) and may also be present in some of the components on the circuit board)
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Packing materials:	Material	1 pcs box weight	5 pcs box weight
	Recycled cardboard	0,160 kg	1,180 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).
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Environmental impact from use of the product:	Power consumption:	With mains supply: < 1W (incl. Flow meter)
		With battery supply: 130 µW (excl. Flow meter)
	Emissions to air:	None
	Emissions to ground water:	None

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**Disposal
by Kamstrup:**

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

When the Energy meters are disposed of by Kamstrup minimum 20 % of their weight is being recycled.

**Disposal
by the customer:**

Disposal 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:

Part:	Primary materials:	Recycling:
All plastic parts	See product materials on page 1	(Yes)
Cables with temperature sensors	Copper, silicone & steel	Yes
Circuit boards with components	Epoxy, glass fibre, copper, tin, lead, silver & electronic components	Yes
Liquid Crystal Display	Glass & Liquid Crystals	Yes
Batteries	Lithium & Thionyl chloride	No
Transformer *	Iron & copper	Yes

* Only in configurations with mains supply

() The SAN plastic from the Calculator top and the PP plastic from the Connection unit can only be recycled if front plate and non-plastic parts are removed.

**Special handling
precautions when
separating:**

Liquid Crystal Display: Do not break the glass.

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

Transport to disposal:

See transport regulations on page 1.

Further questions:

Contact Kamstrups Quality & Environmental department

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