D13 15

End of Life Instruction

Decommissioning instructions available to enable responsible recycling or disposal

PREPARED		DOCUMENT KIND	SECURITY LEVEL		
2023-10-03	Carlota García	EoL Instructions	Public		
OWNING ORGANIZATION		DOCUMENT ID.	REV.	LANG.	PAGE
ABB - ELSB			A	en	1/9

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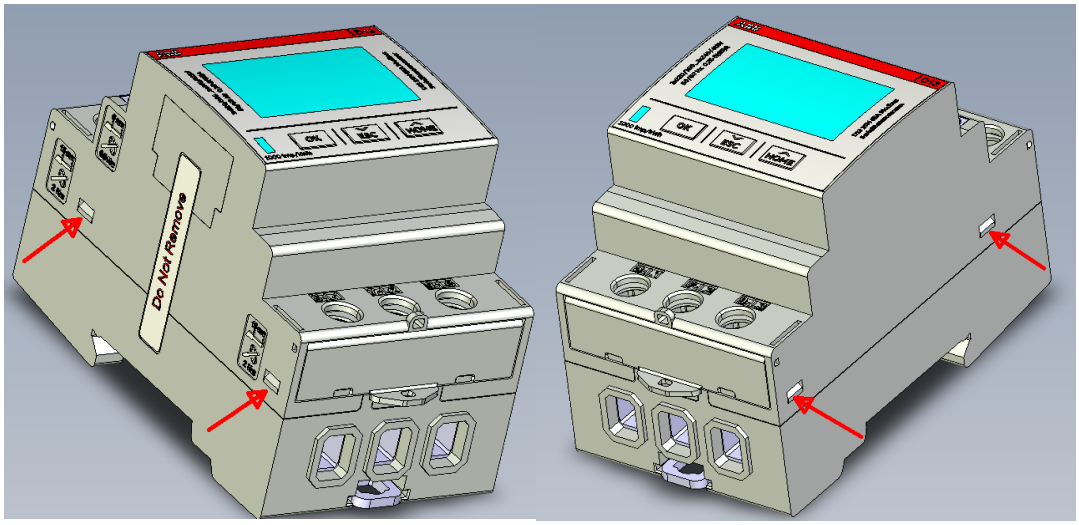
1. Purpose and Basic Description

This product family is in the scope of European Union directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). The product family must be disposed according to the legislation of the country. This the end-of-life instructions is intended for use by customers and recycling companies which outline the responsible recycling or disposal method of the ABB product.

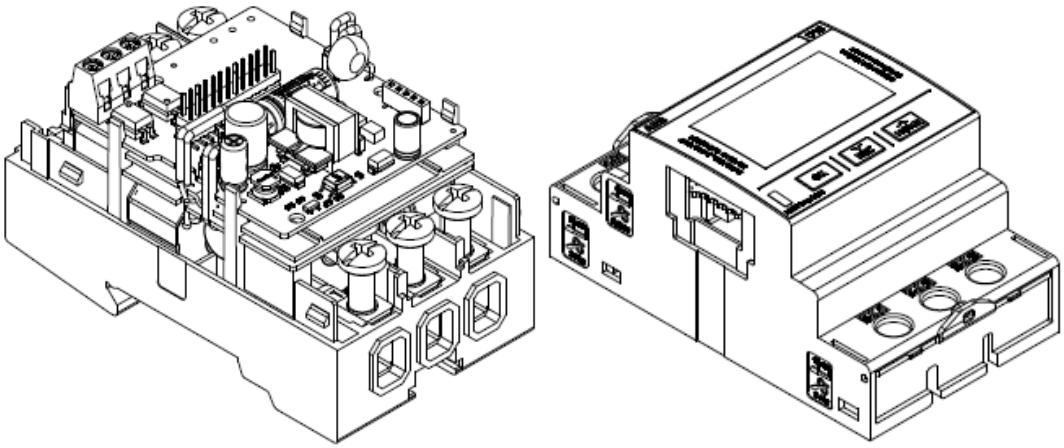
D13 15-65 range is designed to be used in residential, commercial and industrial applications to measure the electrical energy consumed by the downstream circuit.

2. Dismantling instructions

First step: remove the cover acting on the hooks and access to all the internal parts by pushing with a flat screwdriver:

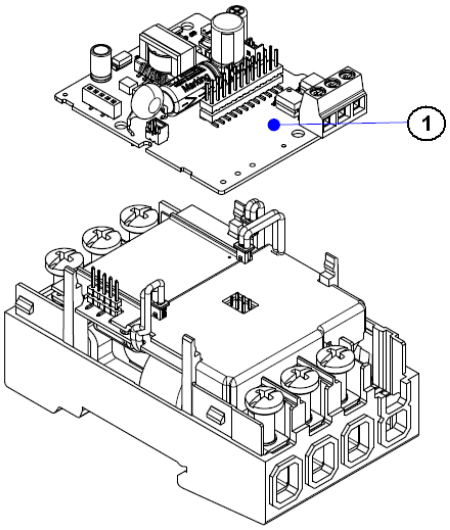


Now you will have 2 subassemblies, the base one and the cover one:

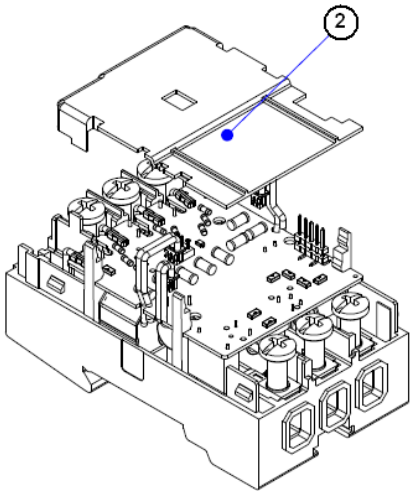


Second step: Dismantling the Base assembly:

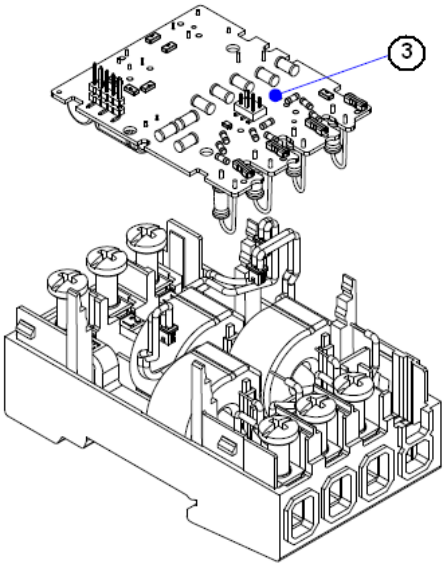
1) Remove the “intermediate PCBA” disconnecting as first the connectors on the top:



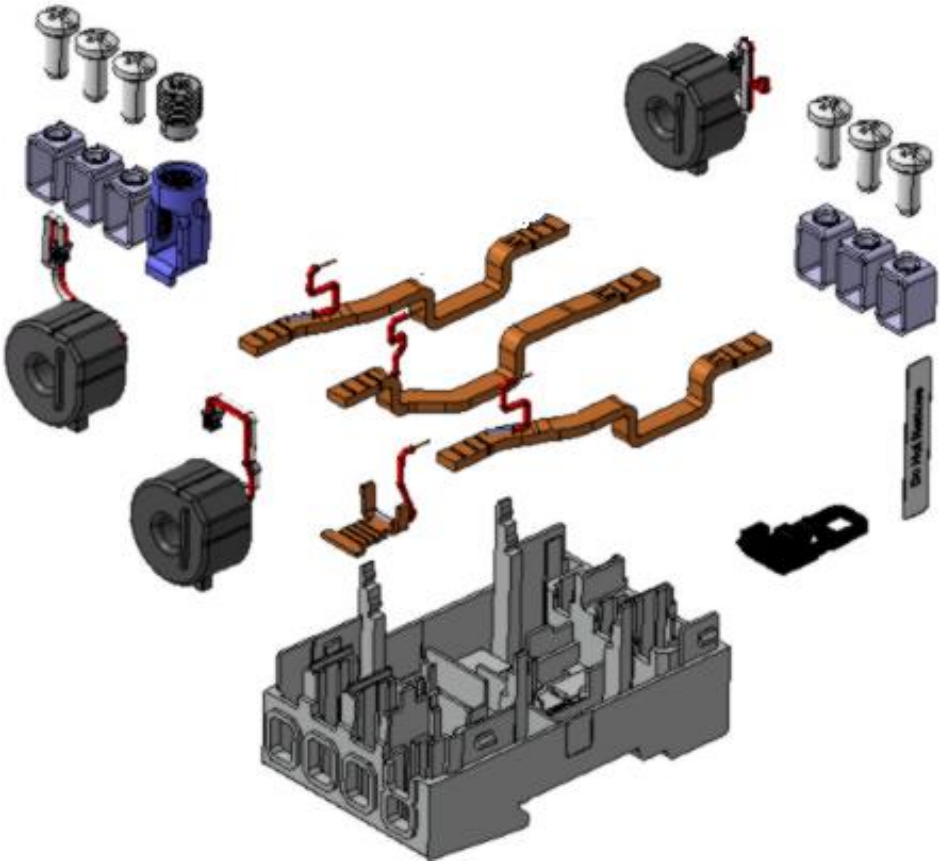
2) Remove the “Plastic Insulating wall” from the top:



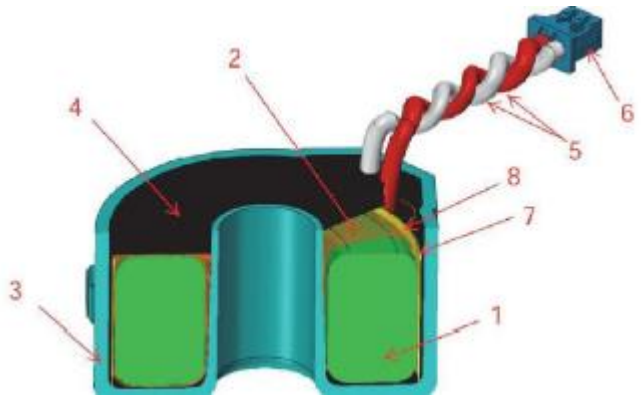
3) Remove the “Input board” from the top cutting the red wires that connect it to the copper bars:



4) Remove all the parts inside the plastic housing (copper bars, Current transformers, terminals, screws, etc…):



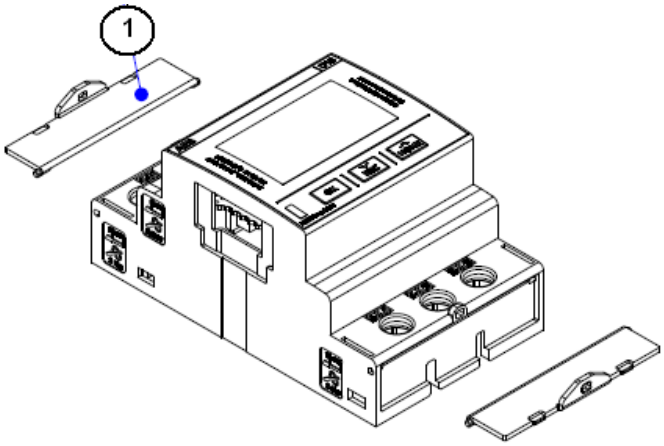
The Current Transformers are assembly that cannot be disassembled easily without a specific separation process. However, the internal structure is the following:



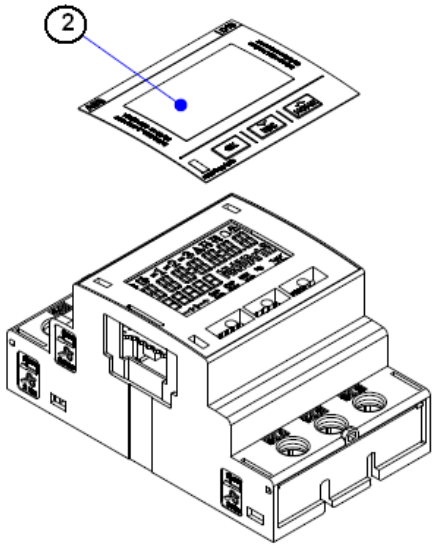
1 Core
2 Wire
3 Housing
4 Glue
5 Lead wire
6 Connector
7 Insulating tape
8 Margin Tape

Third step: Dismantling the Base assembly:

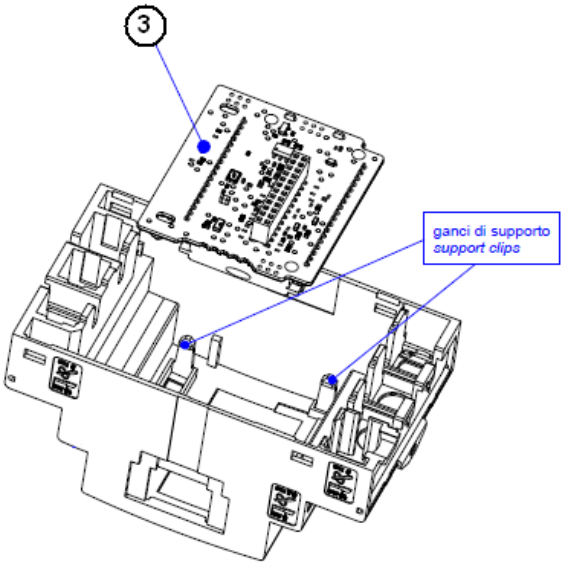
1) Remove the “Terminal covers”:



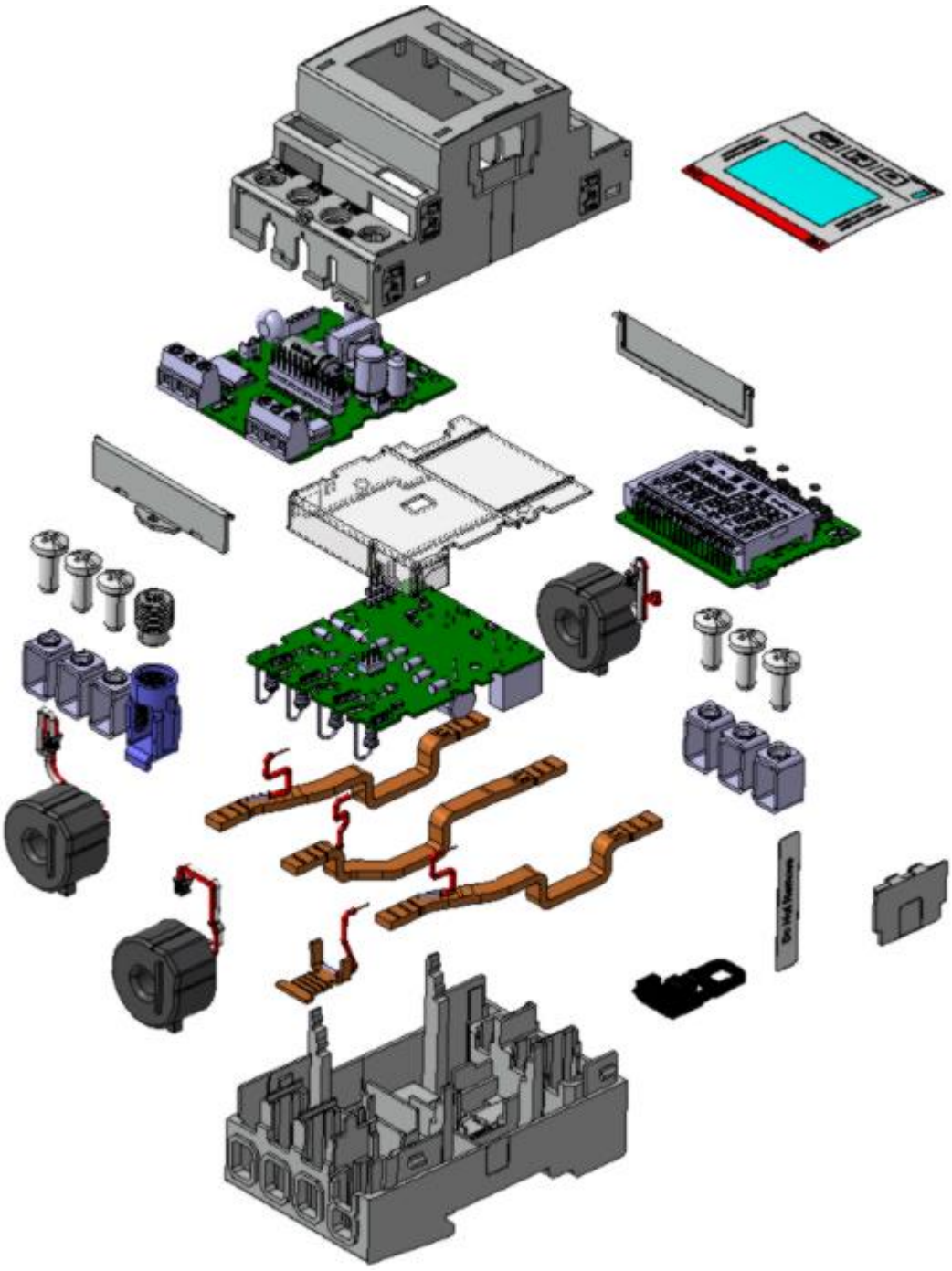
2) Remove the “Frontal panel”:



3) Remove the “Main board” acting on the support clips inside the plastic housing:



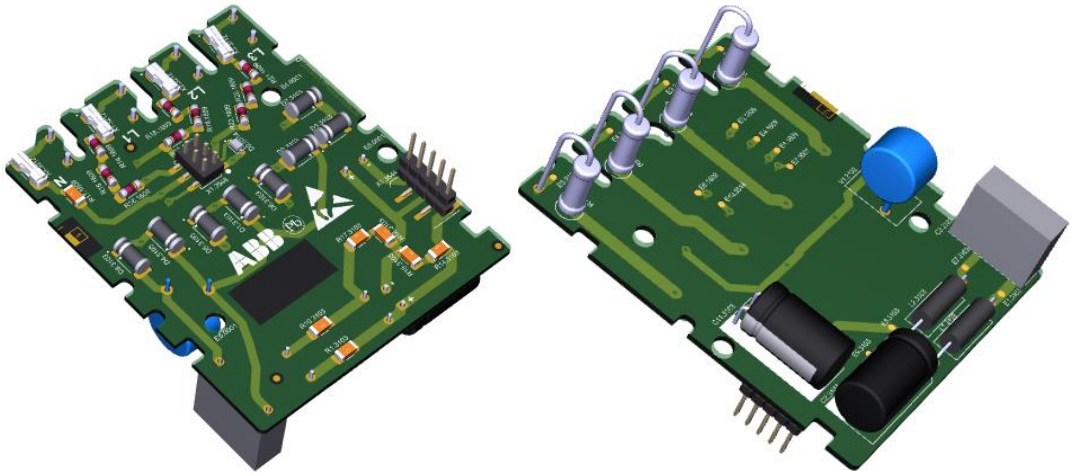
Following a picture of the parts inside the meter



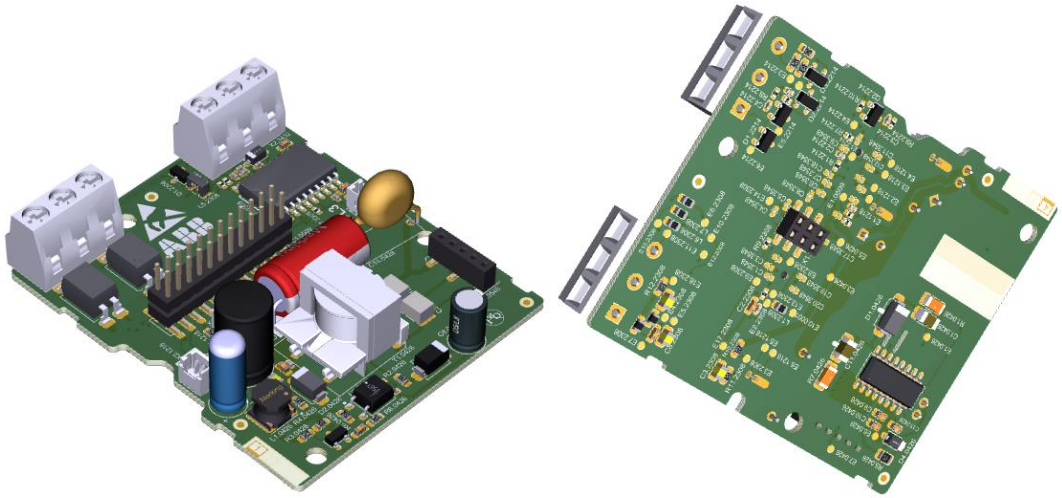
2.1. PCBAs

At the end, the Electronic Board must be depolluted to assure an appropriate end of life treatment.

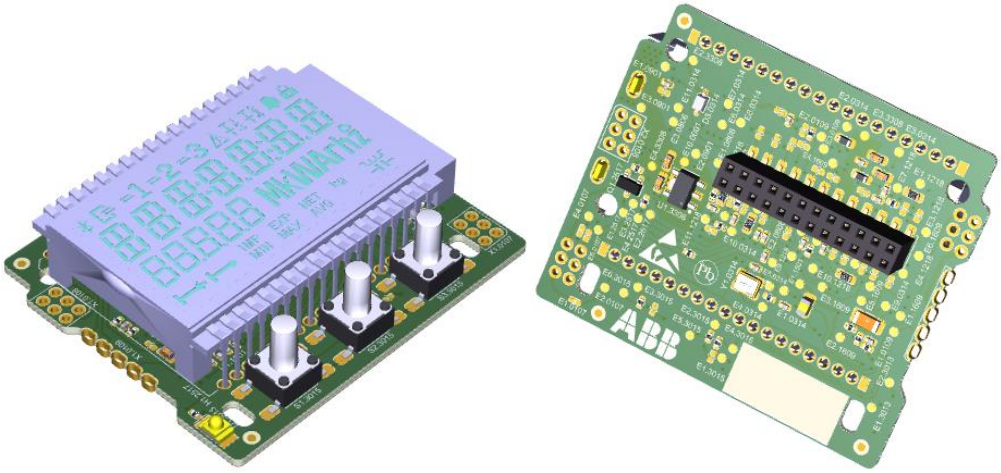
2.1.1. Input board 2CSP000094A1001 (weight 13,1 g)



2.1.2. Intermediate board 2CSP000096A1001: 17,6 g



2.1.3. Main board 2CSP000097A1001: 19,1 g



3. Constituent materials

	weight (g)	% of the weight
Copper	32,32	13,0%
Steel	45,8	18,4%
Other metal	54,2	21,8%
Cables	0,4	0,2%
Polycarbonate	59,2	23,8%
Other polymer	7,1	2,9%
PCBA	49,8	20,0%
Tot	*248,82*	*100%*

4. Additional Information

Weight	248,8g
Overall dimensions (H x D x W)	97 x 65 x 52,5mm
Recyclability rate	48%