

M4M Power Meter

End of Life Instruction

Decommissioning instructions available to enable responsible recycling or disposal



PREPARED 2024-09-10 Enrico Borgnis	DOCUMENT KIND EoL Instructions	SECURITY LEVEL Public		
OWNING ORGANIZATION ABB - ELSB	DOCUMENT ID. 9AKK108470A0840	REV. A	LANG. en	PAGE 1/10

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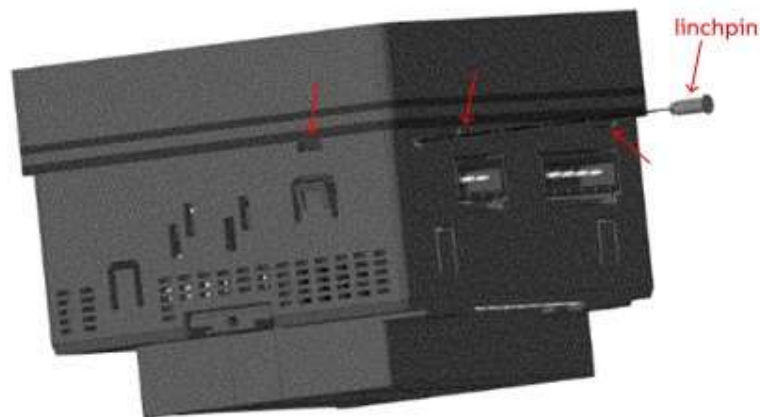
1. Purpose and Basic Description

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.

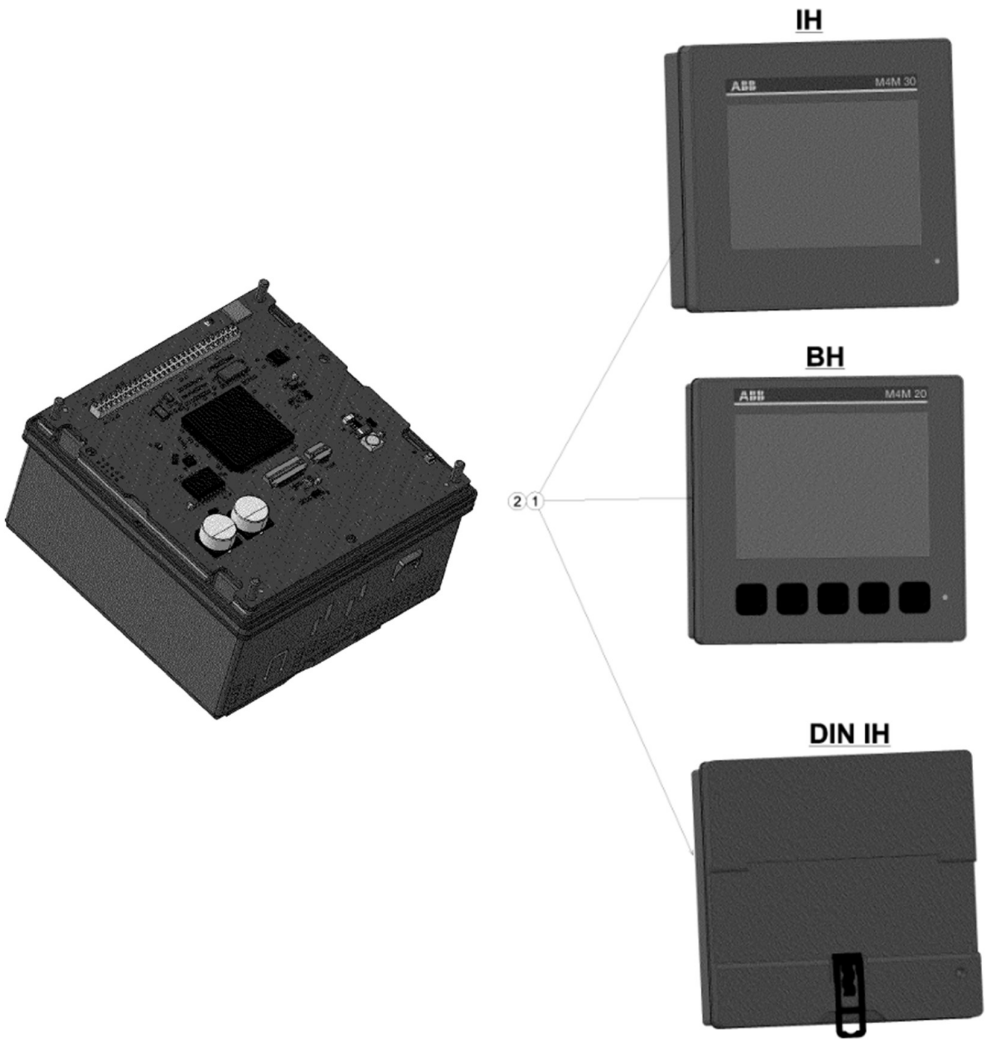
M4M range is designed to be used in residential, commercial and industrial applications to provides complete and accurate electrical parameters monitoring and basic power quality analysis.

2. Dismantling instructions

First step: push the linchpin inside the product, than remove the cover acting on the hooks and access to all the internal parts, these steps are made by pushing with a flat screwdriver:



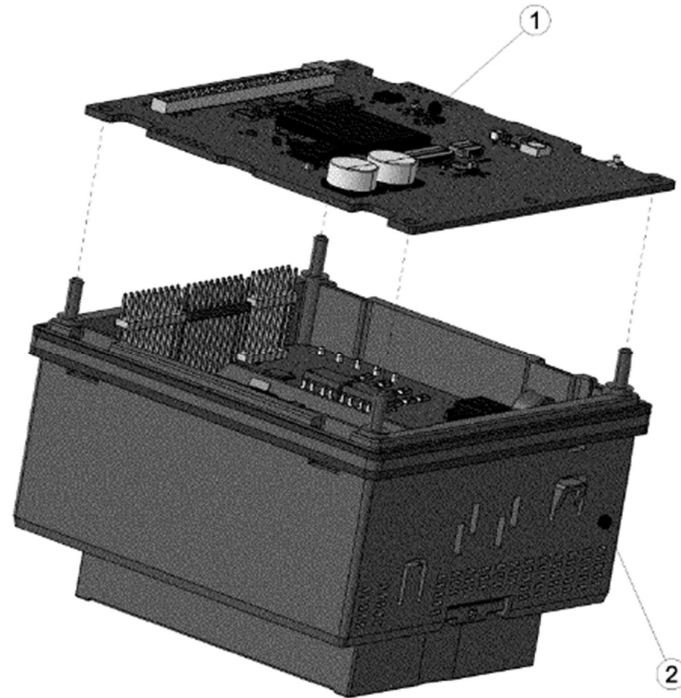
Now you will have 2 subassemblies, the base one and the cover one:



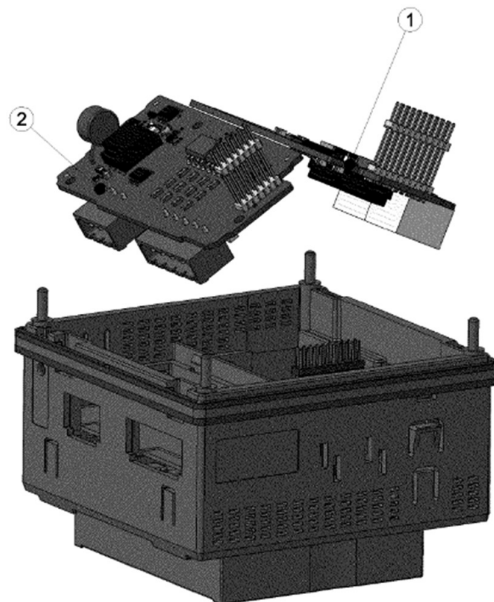
The type of cover depend on which type of M4M you used.
IH → M4M 30; BH → M4M 20; DIN IH → M4M 2X.

Second step: Dismantling the Base assembly:

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

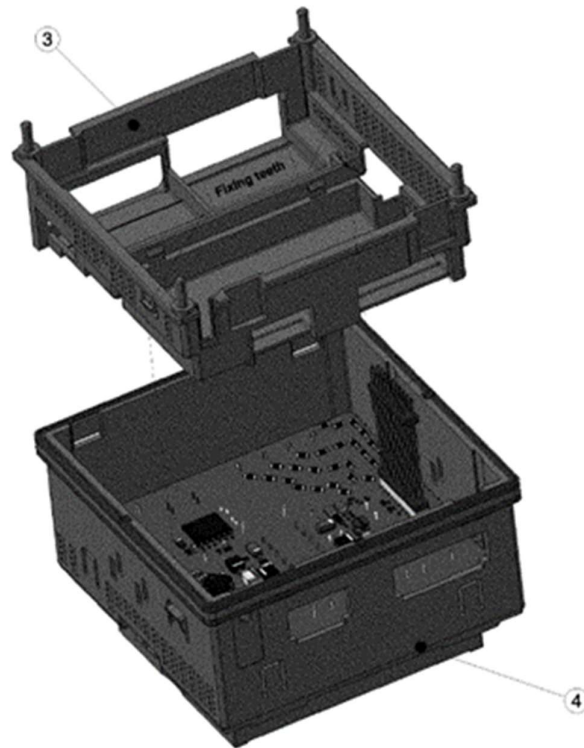


- 2) Remove the 2 auxiliary boards and separate them from its own connectors:
(use a flat screwdriver in order to put pressure on the plastic between the two PCBA and turn them slightly in order to facilitate their exit)

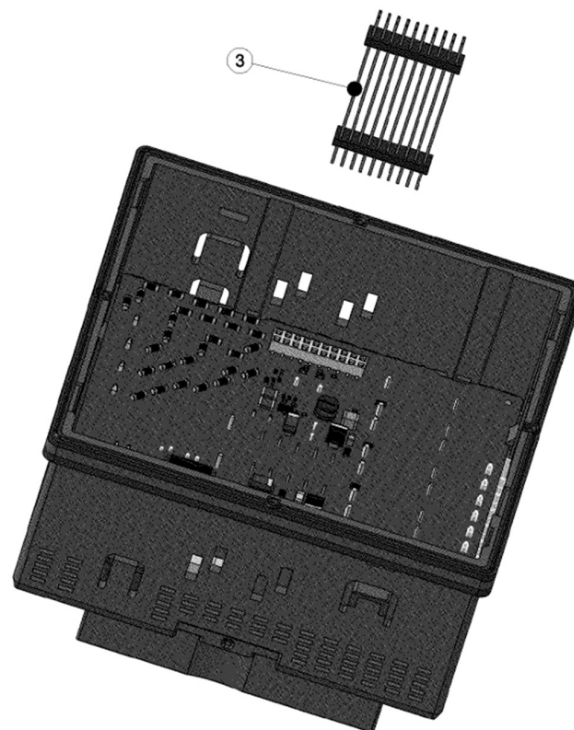


This image is intended solely to indicate the possible contents of the product. Depending on the type of product, there may be 1 or 2 communication boards.

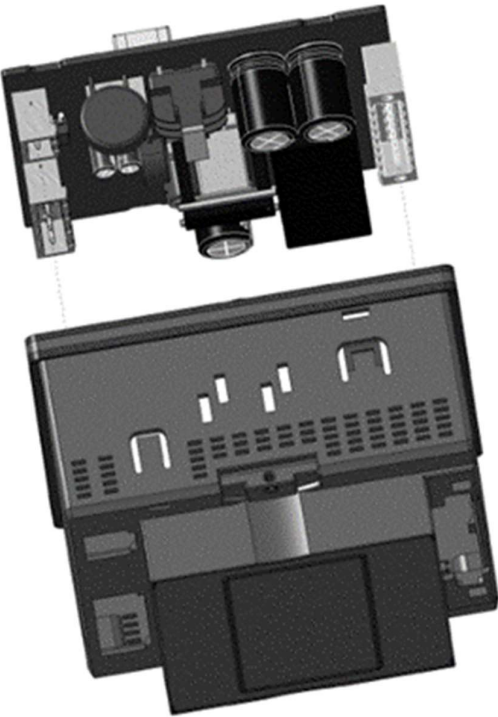
Remove the “Plastic Insulating wall” from the top, by act on fixing teeth:



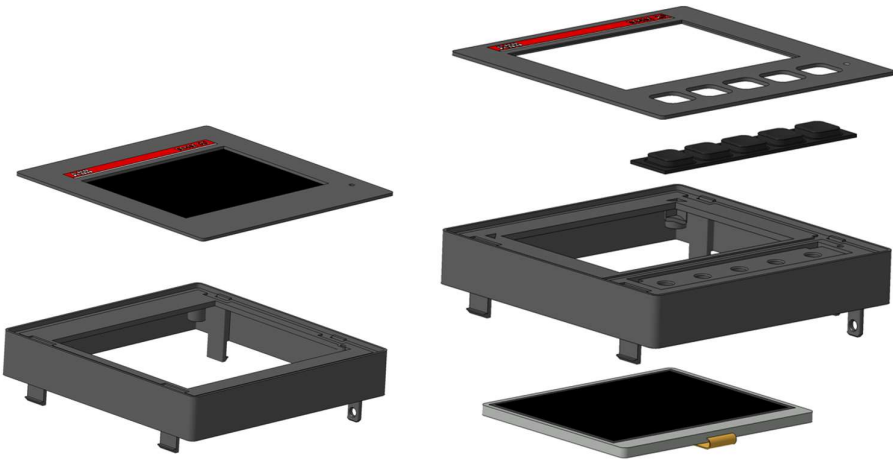
3) Unplug the connector from the “power board”:



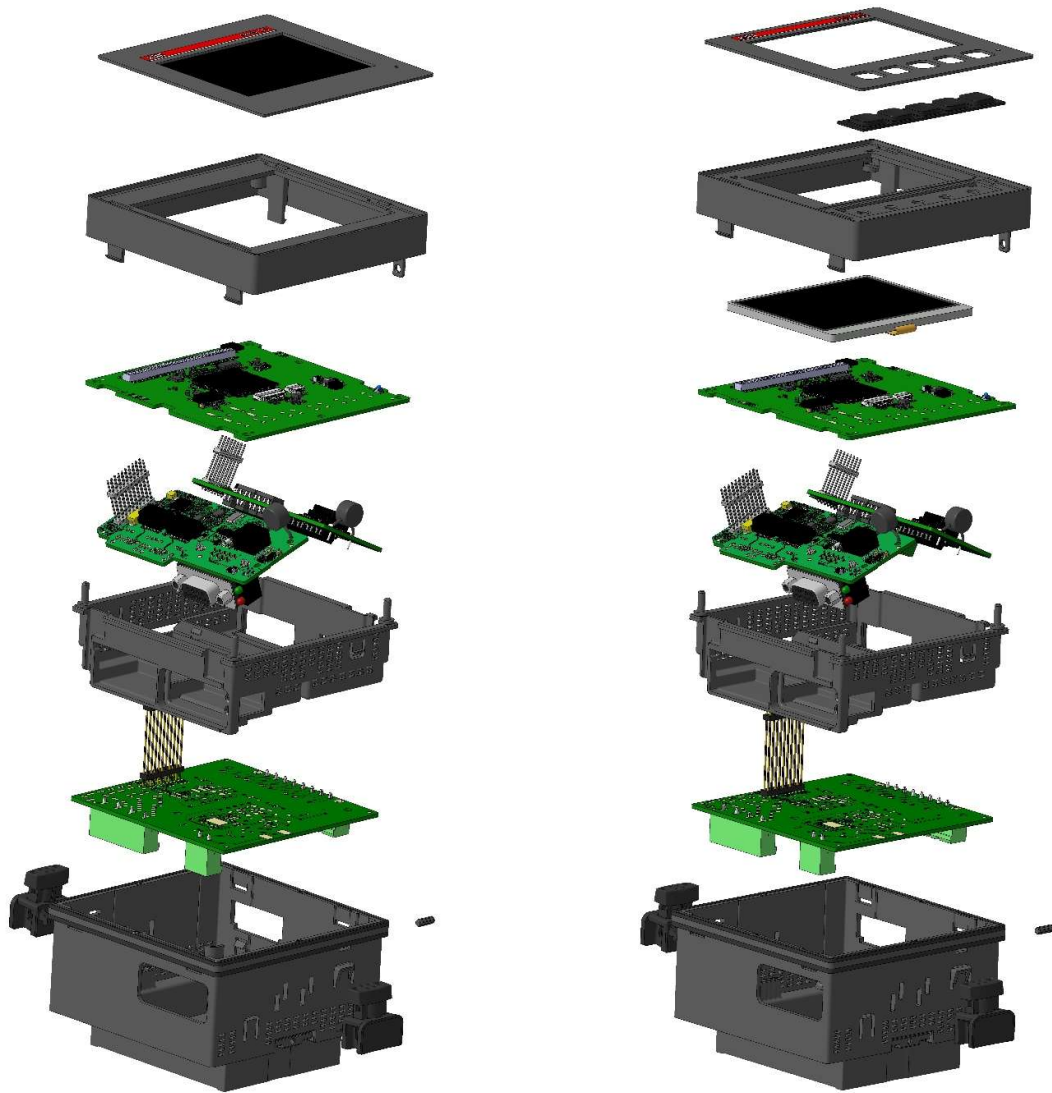
4) Act on the three lowest fixing teeth with screwdriver.



- 5) Remove the “Frontal panel” from the plastic:
(this step must be done just for M4M 30 and M4M 20)



Following a picture of the parts inside the meter

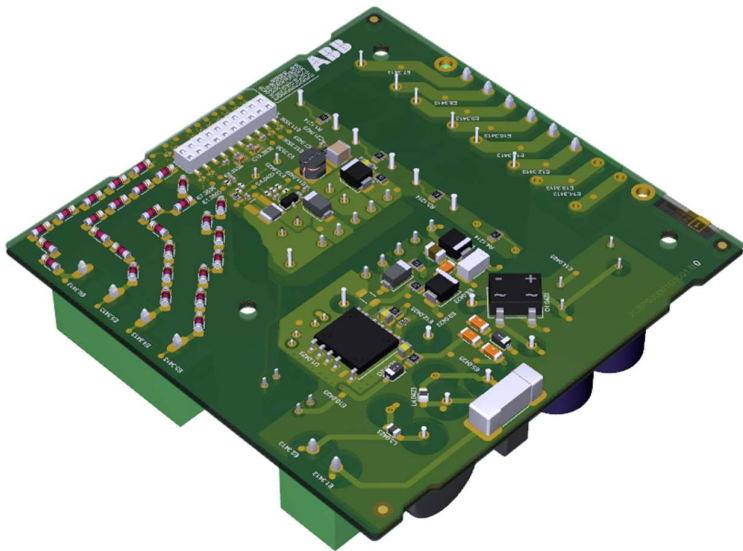


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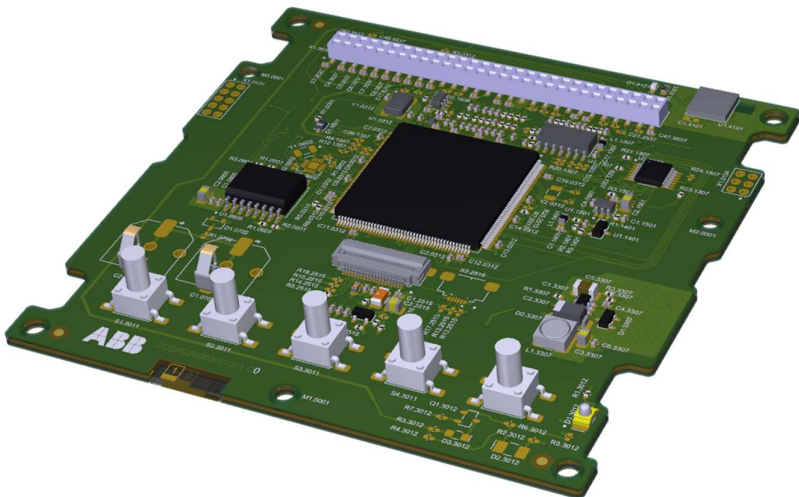
2.1. PCBAs

At the end, the Electronic Board must be depolluted to assure an appropriate end of life treatment.
(it's taking in to account the case of M4M 30 Modbus)

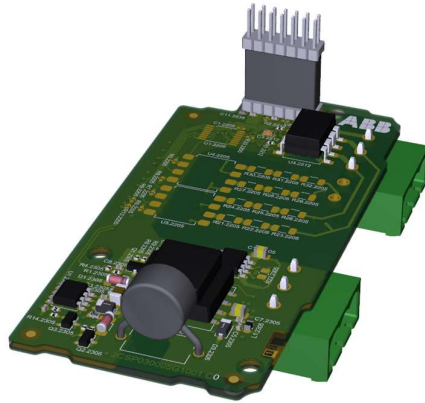
2.1.1. Power Supply board 2CSP000001A1002: 93,7 g



2.1.2. Main board 2CSP000003A1002: 36,8 g



2.1.3. BH Config. I/O RTU 2CSP020005A1003 2CSP000005A1004: 23,7 g



3. Constituent materials

	weight (g)	% of the weight
PC	122,9	39,3%
PE	4,7	1,5%
PA	3,8	1,2%
Silicone	1,9	0,6%
Glass fibre	0,9	0,3%
Copper	22,7	7,3%
Ferrite	1,9	0,6%
Bronze	1,9	0,6%
Steel	1,0	0,3%
PCBA	124,8	39,9%
LCD	26,5	8,5%
<i>Tot</i>	<i>313,0</i>	<i>100,0%</i>

4. Additional Information

Weight	313g
Overall dimensions (H x D x W)	96 x 77 x 96mm