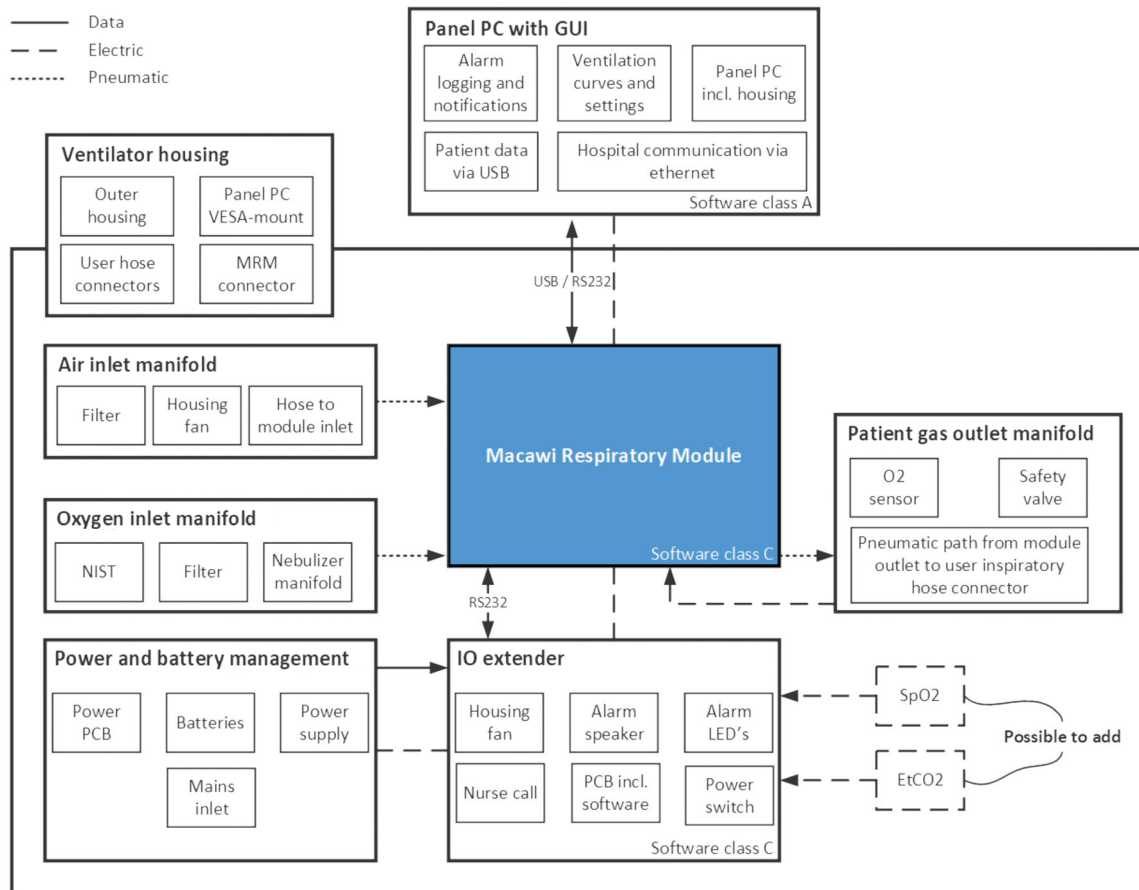


DemcAir license.



During the COVID-19 pandemic, we developed an ICU ventilator for Dutch hospitals on special request of the Dutch government. The DemcAir 2.0 ventilator – with the Macawi respiratory module inside – is available for licensing.

A full license will give you access to all hardware and software documentation, including the software source code and CAD files. The Macawi respiratory module is not included in the license; this module will be sourced at Macawi. Based on this license you can sell your own branded ventilator to the market and you are free to change the DemcAir design according your own specifications.



BUILDING BLOCK	GOAL	WHAT YOU GET
1. Power and battery management	Supply correct voltage to ventilator parts and charging of batteries.	PCBA drawing and schematic Bill Of Materials
2. IO extender	Add additional in- and outputs to the module and send battery level to module	PCBA drawing and schematic Open source IO extender software Bill Of Materials
3. Patient gas outlet manifold	Combine module outlet, safety valve, O2 sensor and inspiratory patient hose connector	CAD drawing Bill Of Materials
4. Air inlet manifold	Filter incoming air and supply to module	CAD drawing
5. Oxygen inlet with nebulizer manifold	To connect to an external oxygen supply- using NIST coupling Filtering of external oxygen Pressure reducer and switching of nebulizer flow (controlled by MRM)	CAD drawing Bill Of Materials
6. Panel PC with GUI	Interface to user	Open source files of GUI based on Qt. Bill Of Materials
7. Ventilator housing	Hardware fixation	CAD drawing Bill Of Materials