***eis system***

*didactic SmartHome electrical simulator*

**Device Predefined Classes**

*upf, 2013-07-01, ver. 1.0.1*

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| --- | --- | --- | --- |
| **Class ID** | **Type** | **Port range** | **Description** |
| *master* | *virtual* | 40000-40099 | simulation master, virtual device, no electrical load at any time |
| *meteo\_station* | *virtual* | 40100-40199 | meteo station, only one can be selected in a simulation |
| *demo\_device* | *load&gen* | 31000-31099 | used only for demo purposes |
| *wind\_plant* | *generator* | 40200-40299 | wind turbine electrical generator |
| *pv\_plant* | *generator* | 40300-40399 | photovoltaic electrical generator |
| *auxiliary\_generator* | *generator* | 40400-40499 | auxiliary generator usually and engine generator, allowed only in off-grid systems |
| *grid* | *load&gen* | 40500-40599 | public grid connection, only one can be enabled at simulation time, allowed only in on-grid systems |
| *solar\_heater* | *load* | 40600-40699 | solar water heater with auxiliary electrical heater |
| *washing\_machine* | *load* | 40700-40799 | generic washing machine |
| *dishwasher* | *load* | 40800-40899 | generic dishwasher |
| *electric cooker* | *load* | 40900-40999 | generic electric cooker |
| *bathroom\_heater* | *load* | 41000-41099 | electrical air heater for bathroom |
| *electrical\_storage* | *load&gen* | 41100-41199 | electrical storage (e.g. UPS), only one can be enabled at simulation time |
| *energy\_manager* | *virtual* | 41200-41299 | energy manager, only one can be selected in a simulation |