Smart Web Datalogger
SD06

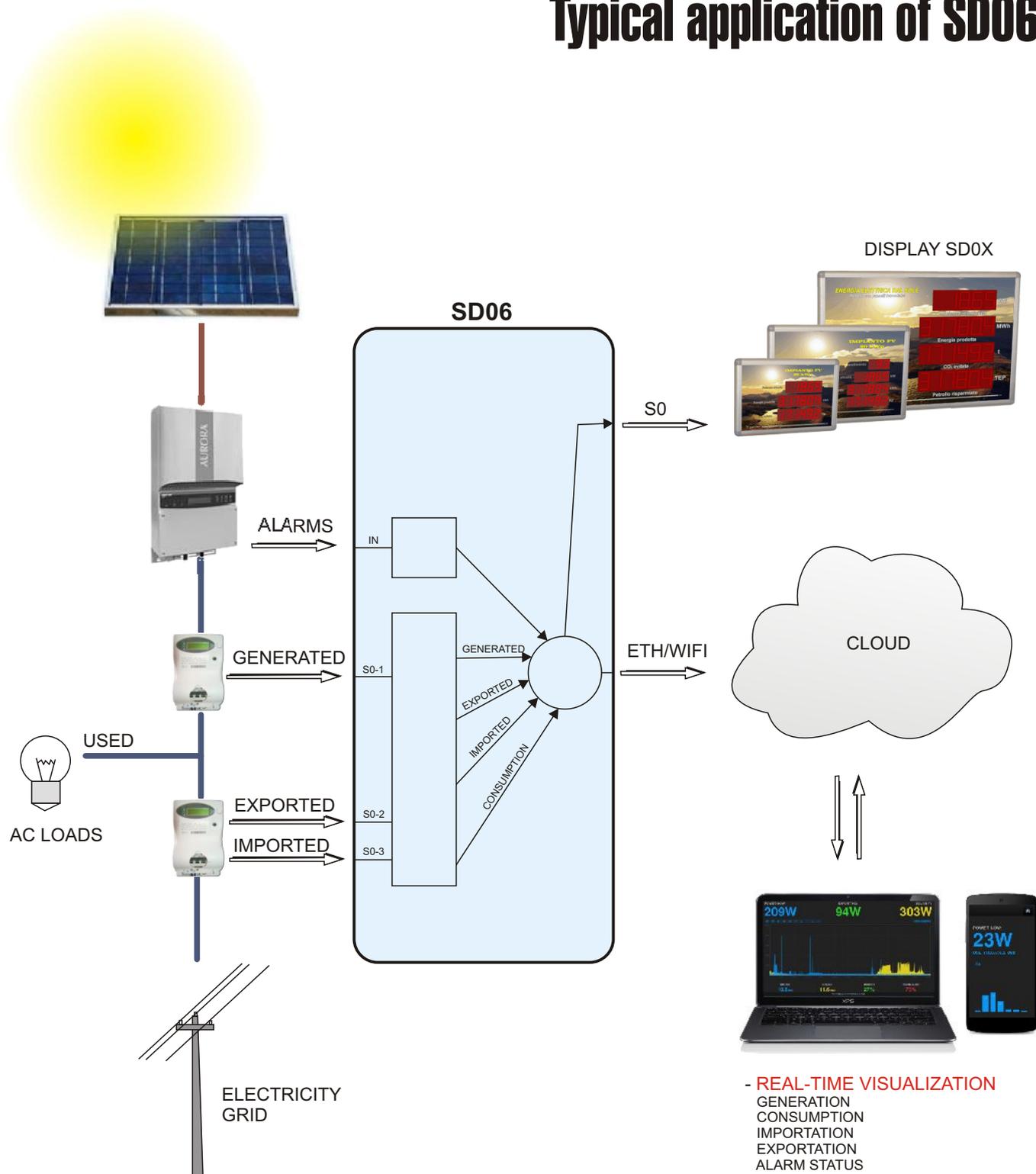## Main features

- 8 independent measurement channels. Each channel can collect power/energy data from given sources and make proper algebraic operations. For example, SD06 can manage all the power quantities tipically found in a PV system with self site consumption (used, exported to grid, imported from grid, generated by PVS)
- 3 S0 pulse inputs
- 7 digital inputs with alarm management with notification support (emails or smartphone notifications)
- 2 digital outputs for remote control
- 2 S0 pulse outputs for external display units
- 2 RS485 serial ports (compatible with ABB inverters or meters such as CVM MINI, SDM120C, etc.)
- 1 Ethernet serial port
- 1 WiFi 802.11 b/g/n interface
- 1 Bluetooth 4.0 (BLE) interface
- 1 DB9 port with RM02 radio modems support
- Power supply 5...24V (<0.5W typ)
- Remote setting via BLE/WiFi
- Remote firmware update via BLE

Preliminary

DISPLAY SD0X

SD06

ALARMS

IN

S0

GENERATED

S0-1

GENERATED

EXPORTED

IMPORTED

CONSUMPTION

ETH/WIFI

CLOUD

USED

AC LOADS

EXPORTED

S0-2

IMPORTED

S0-3

ELECTRICITY
GRID

209W   94W   303W

23W

- REAL-TIME VISUALIZATION
  GENERATION
  CONSUMPTION
  IMPORTATION
  EXPORTATION
  ALARM STATUS

- ALARM MANAGEMENT
  EMAILS / SMARTPHONE NOTIFICATIONS

- REMOTE CONTROL
  PARAMETERS SETTING
  ACTUATORS DRIVING

Note
The drawing above shows an example of SD06 interfacing where all the input power quantities are measured via S0 pulses (outputted by the supply and the generation meter).
The pulses of the meters can be read through photosensors or making a direct connection to their terminal blocks. Alternatively, power/energy values can be read from inverters or energy meters via RS485.

OptiVelox