

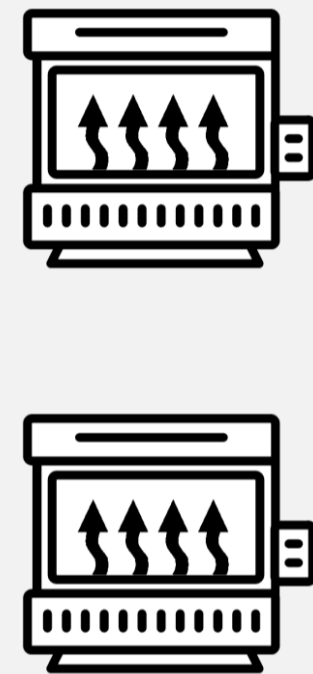


VISION Industry
Machinery and departments cabling

www.agsuiteplatform.eu

Sensor and probe cabling - MODBUS RTU

Machinery



Machinery:

Distributed in different areas, departments or floors

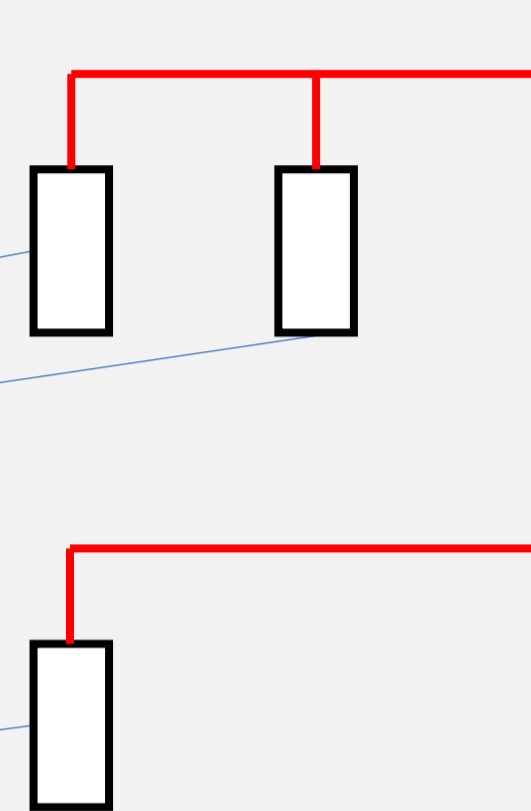
Probes



Probes:

- Detect physical quantities;
- Can be one or more for each machinery;
- Have a cable of a few meters that must be connected to a reader;

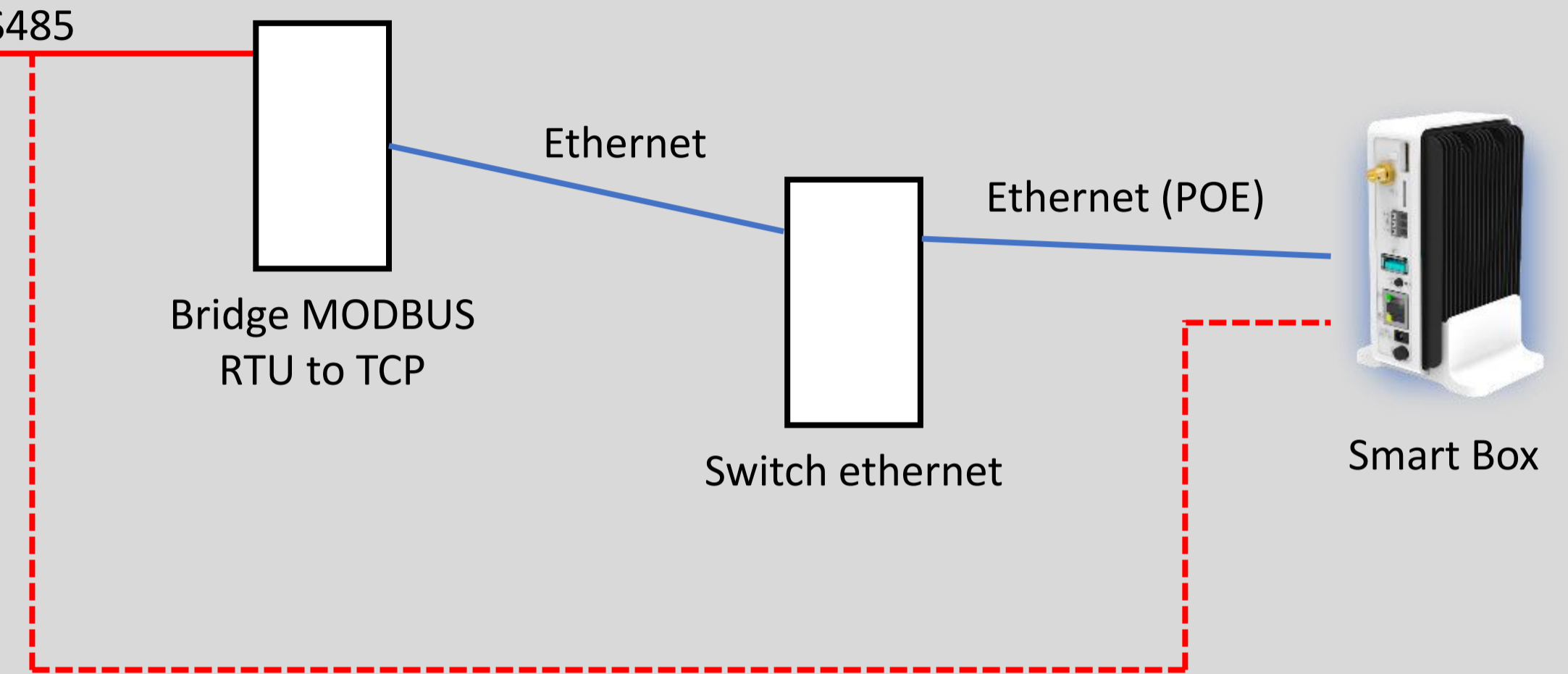
Sensors and probes reader



Sensors and Probe Readers:

- Read the signal from the probes;
- Translate the analog signal into digital;
- Can have a display;
- **Must** have MODBUS RTU (serial RS485) or MODBUS TCP (ethernet) digital output;

Connection to GEMINO Smart Box



Serial:

- Must be installed according to RS485 best practices, avoiding star topologies or keeping every single branch of the star in the order of meters;

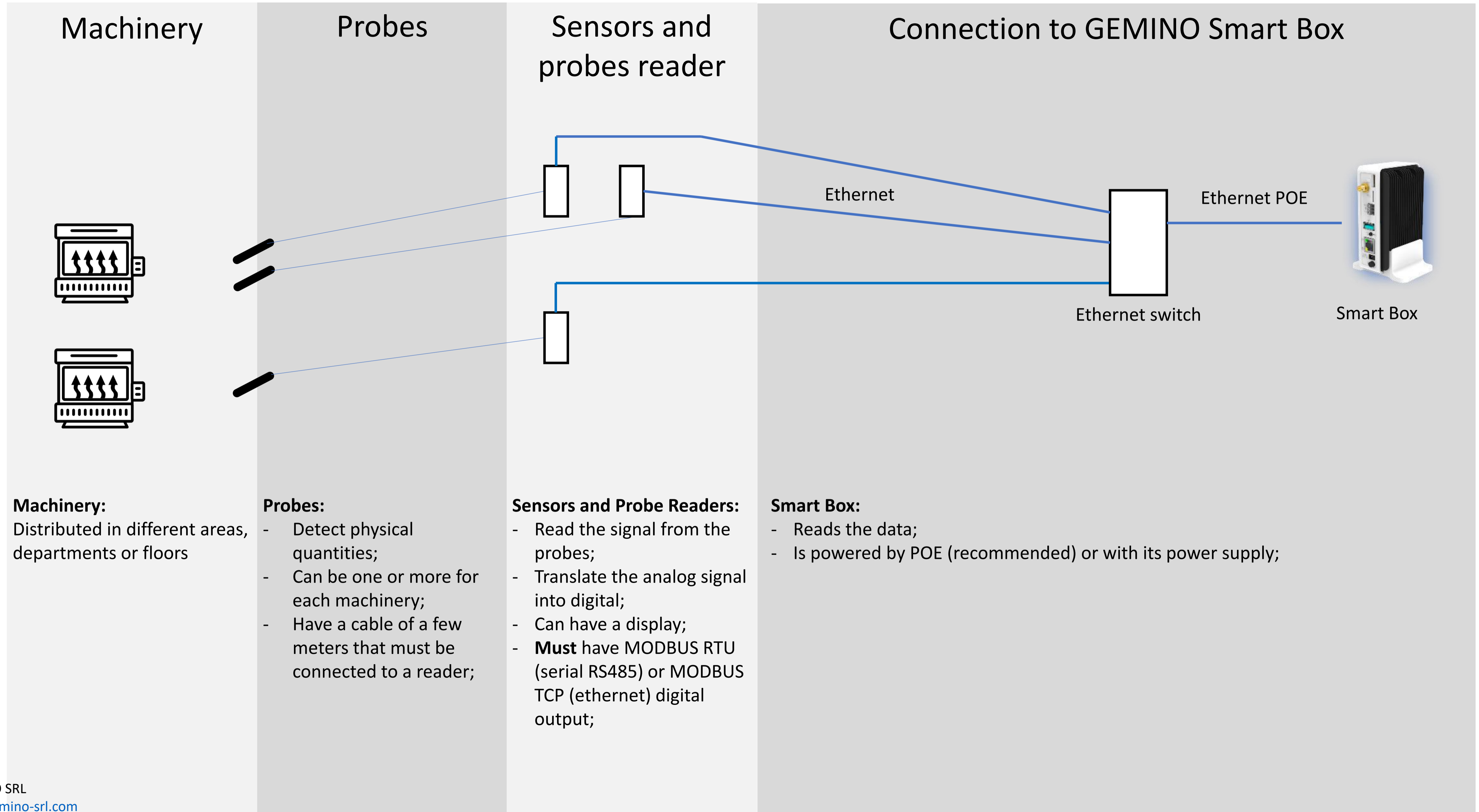
Bridge:

- Can be installed for ethernet cabling;
- Converts MODBUS RTU (serial RS485) to MODBUS TCP (ethernet);
- Connects to the SBO-1000 via an ethernet switch;

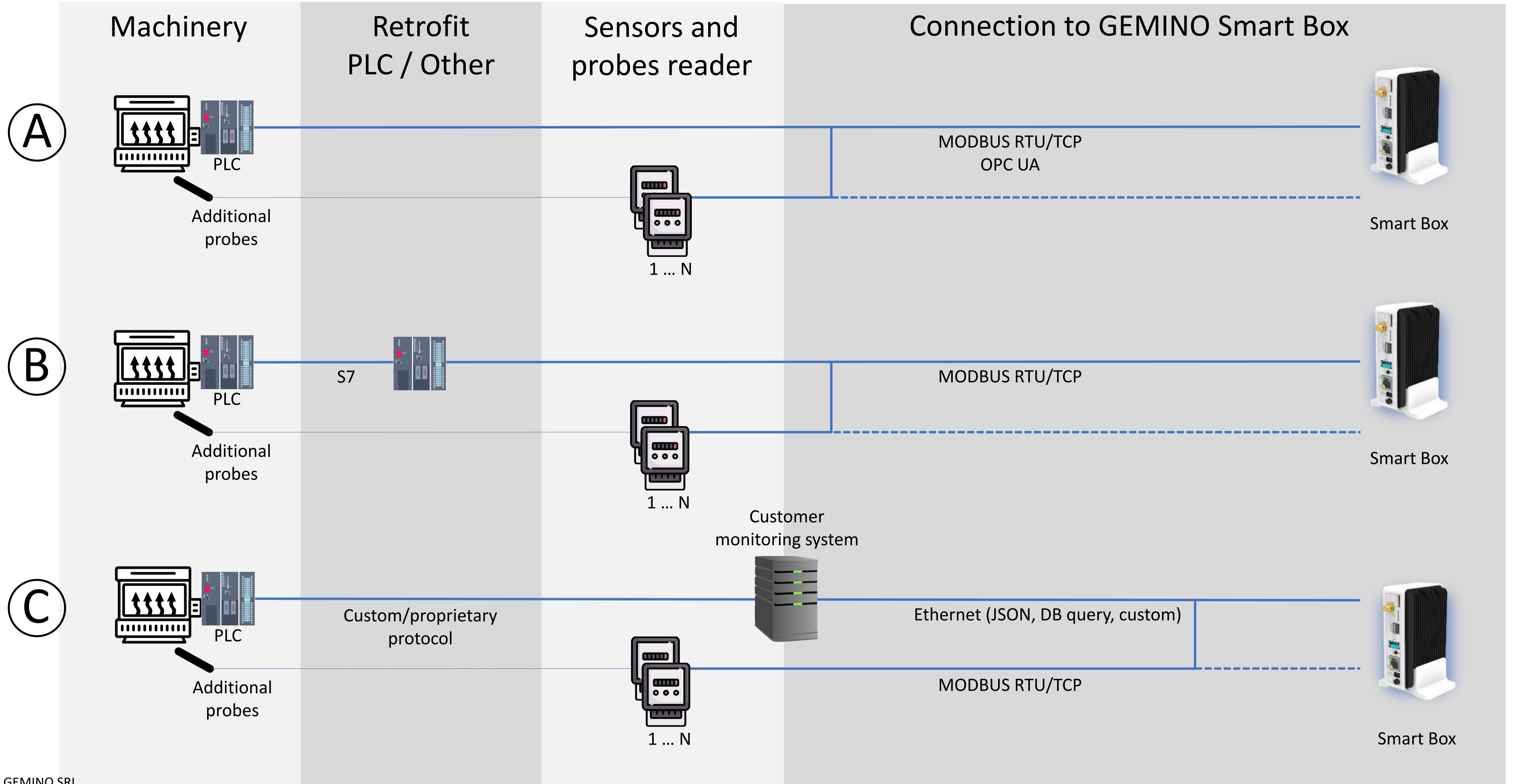
Smart Box:

- Reads the data;
- Can be connected directly to the serial (MODBUS/RTU) or to the bridge (MODBUS/TCP);
- Is powered by POE (recommended) or with its power supply;

Sensor and probe cabling - MODBUS TCP



Connection to machinery with PLC



Connection to electro-mechanical machinery

D

