

ATEX global stand alone remote solution

SM@RT U

Flow computers

Measuring systems

Remote Terminal Unit

Supervisory system

More than a single remote terminal unit, SM@RT U is a global telemetry solution. The SM@RT U package includes: a field device and a web server application (MyMeci Cloud).

Using MyMeci Cloud, the operator can manage all the SM@RT U, monitor all the plants and collect all the data recorded on the field. With an ultra low energy management, the SM@RT U with its very long life battery allow a permanent site accessibility.

The PC application offers to the operator a very easy data exploitation on site through a wireless communication. A smartphone or a tablet application will be available in the future. The SM@RT U display completes the user interface.

A greater autonomy

Ultra low power design

GSM / GPRS / 2.5G /... modem ultra low power.
Very quick data exchange with the sensors.
A wise choice of electronic components.

Power supplies adapted to your specificities

Simple internal battery: more than 10 years battery life with daily communication
IS external batteries pack « long life »: more than 3 years battery life with permanent communication.

Evolutive and secured wireless solution

GSM / GPRS / 2.5G /... : remote access

Removable internal modem for a quick adaptation to the new technologies.
Advanced encryption (AES 128 bits) used to the data exchanged from SM@RT U to MyMeci Cloud to secure data transfer.

Bluetooth 4.0 Low Energy : local access

No physical connection on site.
Integrated user management for the Bluetooth access.
Very low energy consumption.

Easy and quick commissioning

Site equipment with weather resistant enclosure

Industrial environment design.
Authorized in an ATEX area.
Terminal block accessible without tools thanks to new generation box.

Reduction of the operating costs

The SM@RT U conception reduces the on-site interventions.
The amount of exchanged data is optimized.
The installation costs are cheap because of the SM@RT U location (reduced wiring, no specific enclosure, etc.).

MyMeci Cloud: a friendly and opened web application

MyMeci Cloud: what is it ?

A web application useable with your web navigator to be installed directly on your server or available on MECI server.

MyMeci Cloud : its functions

A SM@RT U configurator.
A SM@RT U data concentrator.
A data formatting tool.
A software manager.
A gateway between computer systems.

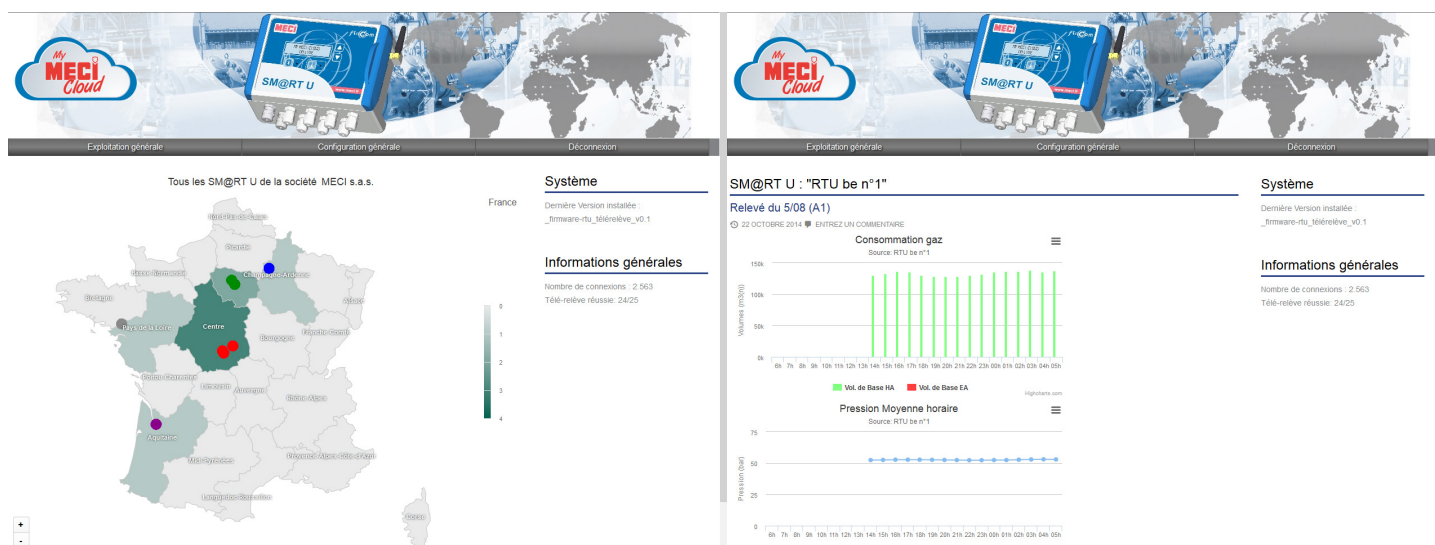
MyMeci Cloud: benefits

An easy and global management of your installation.
A stand alone solution without heavy investment.
Unlimited archiving.
Compatible system with all web navigators without specific software.

Technical data - SM@RT U : ATEX global stand-alone remote solution

| Model | | SM@RT U |
|----------------------|------------------------------|---|
| Functions | Remote reading | Collecting of the volume converter data |
| | Remote metering | Volume calculating from meter pulses |
| | Remote control | Permanent monitoring of the site and uploading data to MyMeci Cloud. Recording of pressure, temperature and state change (valves state, open door, ...) on site |
| | Remote maintenance | A remote global management of SM@RT U (software and firmware upgrade, centralized management of configuration, events log, diagnostic, etc.). |
| Equipment | Operating | Customized web server (MyMeci Cloud) to collect, to format and to use SM@RT U data. |
| | Enclosure | Size : 202 x 186 x 90mm (included antenna and cable gland) Material : Polycarbonate Weight : 900g |
| | User interface | Alphanumerical display : 2 lines of 16 digits Can be customized Keyboard for local reading |
| | Buttons - Leds | Used to initiate or check Bluetooth or GSM / GPRS communications |
| Inputs | Digital inputs | 7 contacts powered by SM@RT U for recording low-frequency flow and to calculate a volume that can be time-stamped (hourly, daily ...) 2 digital inputs on demand |
| | Analog inputs | 1 numerical pressure input (relative or absolute) 2 inputs customized for pressure and/or temperature |
| | Pressure | 50 mbar (g), 500 mbar (g), 10 bar (g), 30 bar (g), 0.9-4.0 bar(a) , 2-10 bar (a), 4-30 bar (a), 20-100 bar (a) |
| | Communication | 1 GSM / GPRS / 2.5G / ... 4 band multi-slot internal modem - class 10 1 Bluetooth 4.0 Low Energy link dedicated for local operation 1 RS485 serial link for communication with slave modbus device (CDV15, others.) |
| | Antenna | Internal or deported |
| Operating conditions | Temperature | - 25°C to + 65°C (working) / - 25°C to + 65°C (storage) Below -20 ° C, the display legibility is not guaranteed |
| | Relative humidity | < 95% without condensation |
| Installation | ATEX and IECEx certification | Ⓜ II 2 G Ex ib IIB T3 Gb Tamb ≤ +65°C |
| | Protection class | IP66 / IK08 |
| | Power supply | Internal battery or IS external batteries pack « long life » (191x125x90mm) |
| | Autonomy | > 10 years |

C75080-01-GB-REV00-08/18



Headquarters and Manufacturing facility
 ZI la Limoise
 36100 Issoudun FRANCE
 Phone : +33 (0)2 54 03 99 49
 Fax : +33 (0)2 54 21 08 90
 Mail : commercial.issoudun.meci@eiffage.com



en.meci.clemessy.com

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