ATEX/IECEx global stand alone remote solution

SM@RT U

Flow computers | Measuring sytems | **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 is also available. The SM@RT U display completes the user interface.

A greater autonomy

Ultra low power design
GPRS 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

GPRS : 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 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/IECEx 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.).
	Operating	Customized web server (MyMeci Cloud) to collect, to format and to use SM@RT U data.
Equipment	User interface	LCD alphanumeric display 2 lines of 16 characters Customizable dedicated menus, 2-key keypad for navigation Bluetooth Low Energy connection for local wireless operation
	Enclosure	Dimensions L x W x H: 202 x 186 x 90mm (including antenna and cable glands) Material: Polycarbonate, Weight: 900g
	Lights	2 LEDs used for start-up and diagnostics of Bluetooth and GPRS communications
		Dedicated pressure sensor: ¼ '' male gas
	Connection	Removable screw terminal blocks
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), 0.9-4.0 bar(a) , 10 bar (a), 30 bar (a), 100 bar (a)
	Communication	1 integrated Modem, integrated or remote antenna 1 Bluetooth Low Energy link dedicated for local operation 1 RS485 serial link for communication with slave modbus device (CDV15, others.)
Operating conditions	Temperature	- 25°C to + 65°C (working and storage)
	Relative humidity	< 95% without condensation
Installation	ATEX certification IECEx	Ⓔx II 2 G Ex ib IIB T3 Gb — LCIE 16 ATEX 3061 X Ex ib IIB T3 Gb — IECEx LCIE 16.0047X
	Protection class	IP 66, IK08
Power supply		Single internal battery with an autonomy of more than 10 years IS external long battery pack (L x W x H: 191x125x90mm) External power supply 24Vdc or 115/230Vac installed in safe area

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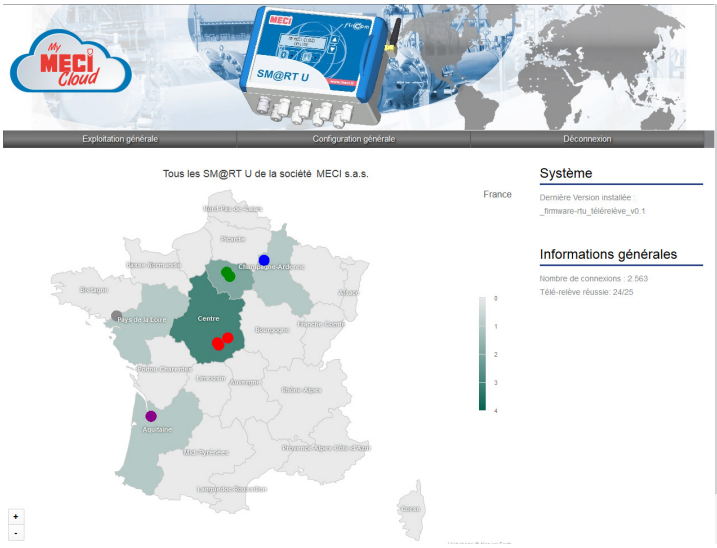

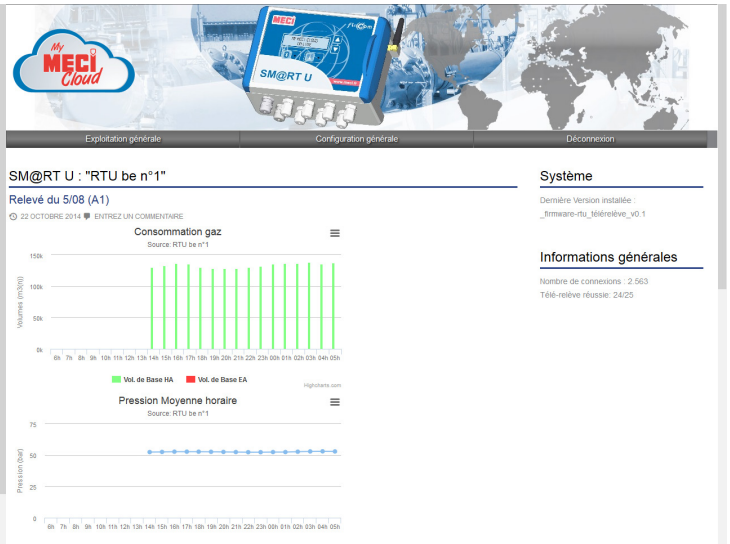

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