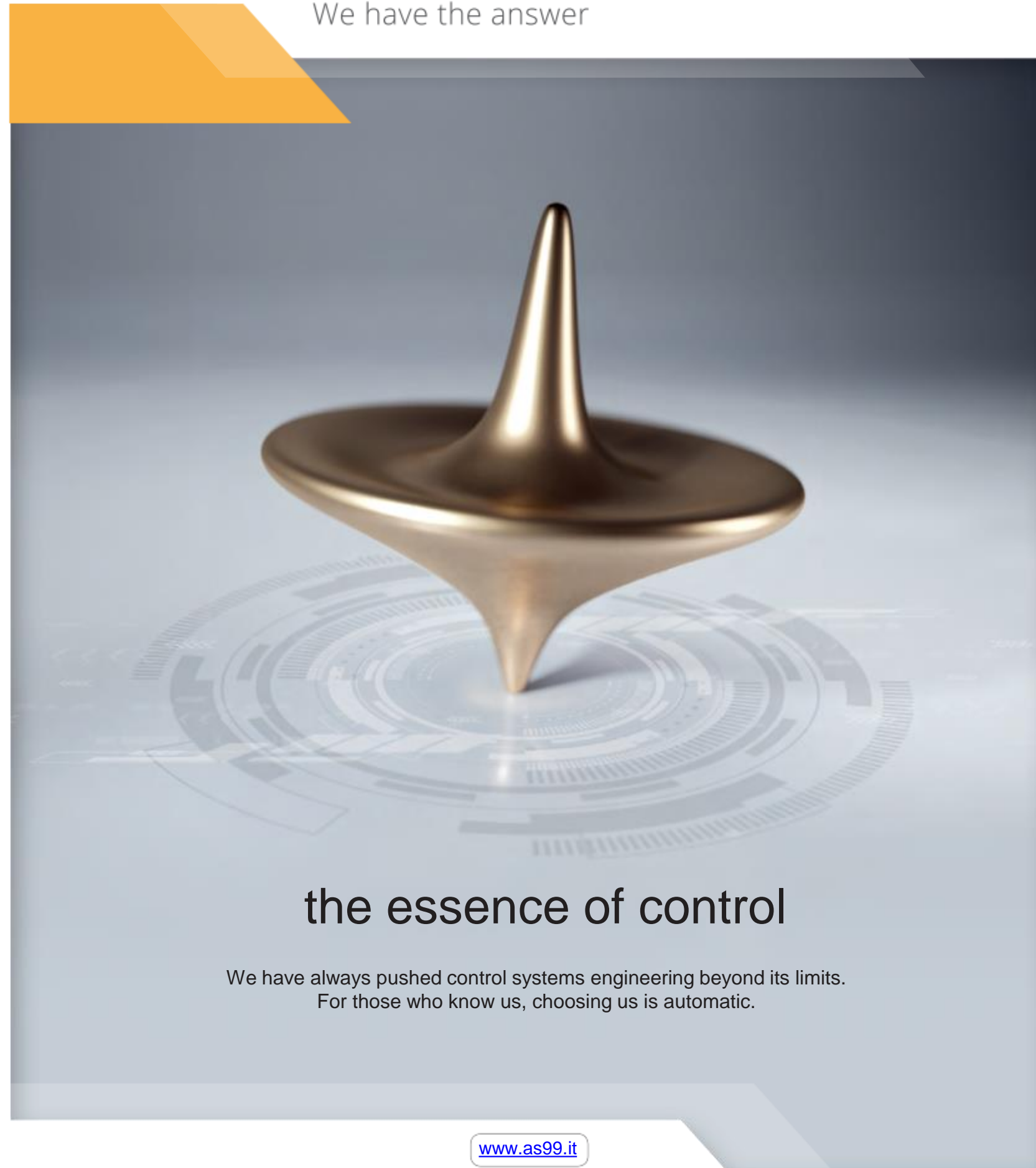


# AUTOMATION DAY 2022



Università  
di Catania

**automation**service  
We have the answer



the essence of control

We have always pushed control systems engineering beyond its limits.  
For those who know us, choosing us is automatic.

[www.as99.it](http://www.as99.it)

**:automation**service  
We have the answer

**BALANCE,  
CONTROL,  
PRECISION,  
INTUITION,  
CREATIVITY  
TECNOLOGY**

Become part of Automation Service  
Open doors of opportunity for the future

# SINCE 1999 PROJECTED TO FUTURE

Control and supervisory systems specialists  
and full automation of utility systems.  
**We are this, we are much more.**

Automation Service was established in 1999 on the initiative of the founder Elio Pintaldi and a group of young collaborators, but the success already began in 1984, thanks to the presence of PI.CO.SYSTEM S.r.L. from which it comes acquired the automation company branch.

We quickly established ourselves in the engineering of control and supervision systems, gaining the trust of important companies multinationals in the Oil & Gas and Power Generation sectors. A challenge won thanks to the ability to offer both turnkey projects and systems engineering aimed at command, regulation and supervision logics using the manufacturers' hardware and software most important worldwide.

Today we are a leading engineering reality  
in Italy and abroad, in continuous growth.





# KEEP ON SEARCH FOR NEW PERSPECTIVES

# THE ONE THING WE CAN'T CONTROL IS OUR TECHNOLOGICAL AMBITION

**A perfect system never stops.**

Always we believe in the search for new frontiers that allow us to face the challenges of the global market, looking for to always be at the forefront of the sector.

**We do this by developing solutions, but above all ideas,** because listening to what the customer is asking us today is the only way to anticipate their future needs.

For this reason, the Research and Development division has been successfully expanded in recent years:

the most decisive answer we could give to a constantly changing market.

In the meantime, the company branch dealing with development and automation was also born integrated on large civil and military vessels. All this has led the company to increase personnel and to cross European borders.



# OUR AREAS OF ACTION

**The Italian value everywhere.** Our specialist engineers take care of it at the headquarters of many multinational companies around the world.

To enhance the technological potential we have intended each division has its own set of resources.

Process control in the sectors:

OIL & GAS

CHEMICAL

UTILITY

MARINE

POWER  
GENERATION

- / Distributed Control Systems for Process Automation (**DCS**);
- / Centralized Control Systems for Process Automation (**PLC**);
- / Supervision systems (**SCADA**);
- / Burner Management Systems (**BMS**);
- / Emergency Shutdown Systems (**ESD**);
- / Fire & Gas System (**F&G**);

For each application we can offer the entire system project turnkey, according to the agreements defined between End User, EPC and Mother-House. We also activate partnerships in order to fulfill individual phases of the project. We integrate with other specialists in the instrumental sector and/or plant engineering to guarantee the customer a single supplier.



# OUR AREAS OF ACTION

OIL & GAS



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CHEMICAL



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UTILITY

**webuild** 



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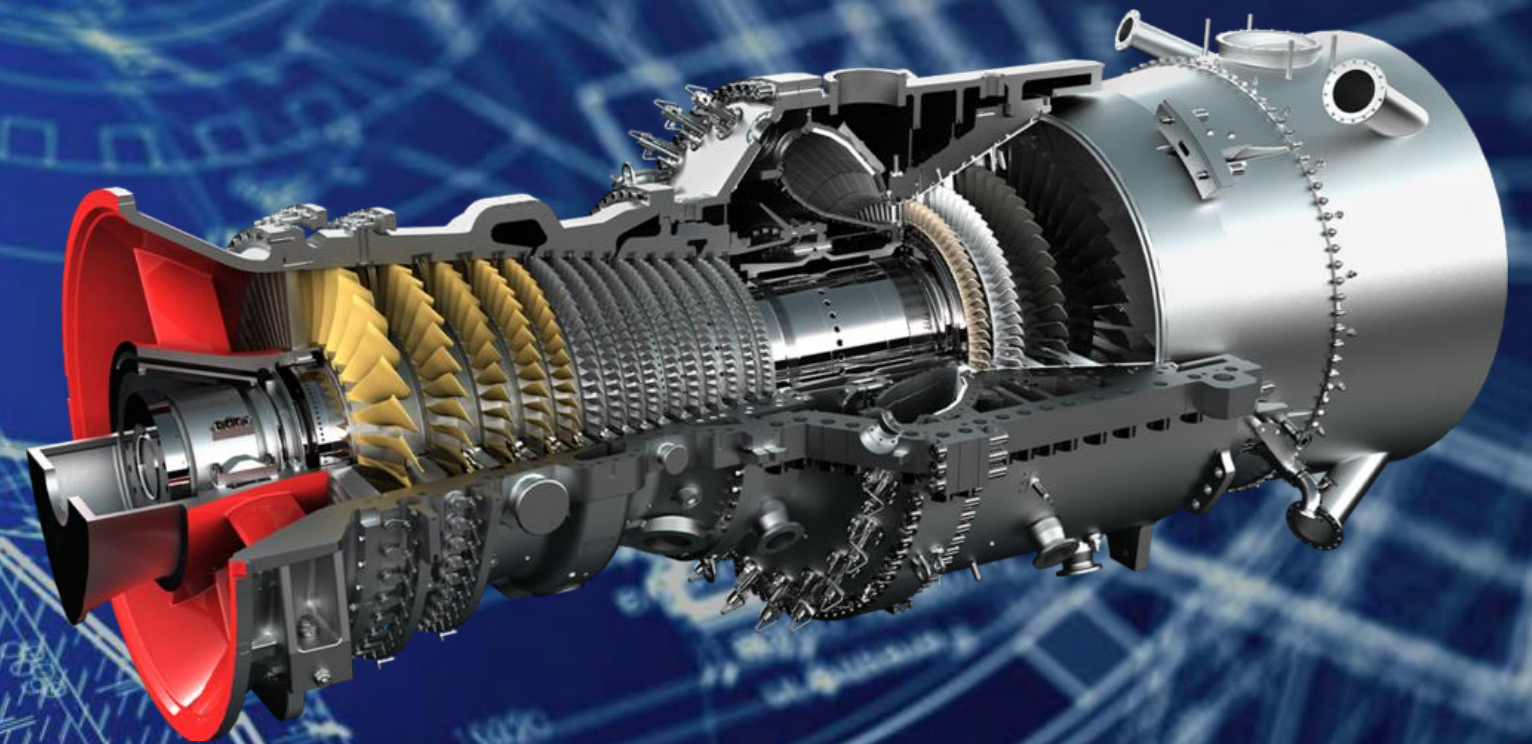


# OUR AREAS OF ACTION

POWER  
GENERATION

**ABB**

**ANSALDO  
ENERGIA**



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# OUR AREAS OF ACTION

CIVIL



- / Distributed Control Systems for Process Automation (**DCS**);
- / Centralized Control Systems for Process Automation (**PLC**);
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# OUR AREAS OF ACTION

MARINE

**FINCANTIERI**  
Cantieri Navali Italiani S.p.A.



**CARNIVAL**  
CORPORATION & PLC.



**ECOSPRAY**  
technologies for the planet



- / Distributed Control Systems for Process Automation (DCS);
- / Centralized Control Systems for Process Automation (PLC);
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# INGENIOUS IN THE PRODUCT, INGENIOUS IN THE PROCESS.

No product is innovative enough if first it is not supported by a process flawless. **Knowledge is not enough.**

Practical solutions make the difference, even in a company, for this reason we have defined a production process in phases which we respect and refine according to customer's needs.

Thanks to our project management service we succeed to follow each phase respecting the highest standards of efficiency.

## OUR PROCESS





# ENGINEERING AND SERVICE: OUR WAYS OF STAYING BY YOUR SIDE.

For us, being engineers is not a profession,  
but a **way of being in the world.**

Designing and implementing control systems is our mission.

We do it for new applications or on existing systems: we put a  
supply of expertise on technological platforms of the main Mother-House companies.  
Our highly specialized area of action allows us to offer an engineering service  
whose excellence is recognized in Italy and abroad.

## Our engineering services:

- / Project Management
- / Definition of cost estimates
- / Development of feasibility studies for the overcoming obsolescence problems
- / Development of technical specifications
- / Basic and detailed design of control systems
- / Reverse Engineering
- / Control narrative or FCD
- / Logic diagram
- / HMI specification
- / Cause-effect diagrams
- / Loop diagram
- / Technical assistance for carrying out the Factory Acceptance Test
- / Technical assistance for carrying out the Factory Acceptance Test
- / Technical assistance for the execution of Site Acceptance Test
- / Sil Assessment and Risk Analysis



# SOLVE EXISTING PROBLEMS

The intense diffusion of control systems and the management issues of these devices have changed **the meaning of the term "service"** in the control systems context.

Today end users find themselves having difficulty in both management of new generation plants, both in obsolete ones.

Since the first years of activity we have always paid close attention to these specific needs, organizing ourselves and deploying resources with transversal skills useful for guaranteeing service on systems provided by us and/or by other suppliers.

## Entrusting us with the service means:

- / Global systems management contracts
- / Help Desk 24h/24h
- / Periodic checks with preventive purposes
- / Engineering aimed at modifying existing algorithms
- / Engineering aimed at the implementation of new algorithms
- / Plant consultancy to support the technological and process functions
- / Control system maintenance according the specification required
- / Remote assistance

Current customers are represented by end users and by manufacturers of control system technology.

API Energia

API Raffineria

Air Liquide

EdiPower

Edison

Enel Green Power

Enel

ENI

Erg Power

Linde Gas

Lukoil

Raffineria di Milazzo

Sasol Italy

ST Microelectronics

ABB Marine

ABB P.D.

ABB P.S.D.

ABB S.A.E.

Ansaldo Energia

Emerson

Leonardo

Hima

Schneider Electric

Seastema

Siemens PG

ENI qualification:

**BB08AH02** Emergency Shutdown System - ESD

**BB08AH10** Programmable Logic Control – PLC

**SS06BB03** Control System Maintenance



# RESEARCH & DEVELOPMENT

**Minds, hands, people committed to creating new solutions.**  
A common goal: effectiveness and efficiency.

Working closely with highly technological and innovative realities has allowed us to analyze specific needs to be developed. Strengthened by this premise, we have decided to invest in research and development activities. Our team is constantly working to respond to customers who cannot find ready-made items on the market responds to their specific needs by analyzing, engineering and applying new ones solutions with high technological content and absolutely innovative.

We started with:

**A4S** Automation for Safety

**CR.EV.AS** Chronological Events Automation Service

**EnergiAS** Reading energy and gas meters

**GipEX** Integrated management of explosive tests

## A4S Automation for Safety

It is the software suite for monitoring Personal Protective Equipment (PPE) in the workplace, based on RFID technology (Radio Frequency IDentification). The system allows the site security manager to verify the correct application of the safety policies in compliance with the regulations in force thanks to a UHF electronic gate to be installed near the access points of the work areas. Thanks to A4S in fact, it is possible to check whether the operators who pass through the gate are wearing the Protective Devices Mandatory prescribed through the application of special RFID tags on the PPE themselves.

Its strong point is **the ability to simultaneously analyze multiple people** who cross the gate.

**The system, widely customizable, can also include for example:**

- / the possibility of verifying and controlling the accesses of authorized vehicles to the plant;
- / the "hands-free" access control;
- / the verification of the average speed of the vehicles used within the areas subject to particular restrictions. By exploiting the system's ability to detect the passage of a vehicle at a given point, it is possible obtain precise information on the average crossing speed of well-defined road sections;
- / the statistical count of the alarms generated (missing PPE or transgressions of the speed limit);
- / any other "feature" specifically designed for the customer.

**The most salient strengths are:**

- / Use of low-cost TAGs
- / Guaranteed protection against burglary through self-destructive TAGs
- / Personalization of TAGs

The A4S suite consists of 3 software tools:

**A4S TAG**

Programming tool for customize every single TAG and uniquely associate it with the DPI and to the owner of the same;

**A4S RDB**

It is the engine of the entire system. In fact, it records the detections of each gate by memorizing the TAGs detected within a database;

**A4S VIEW**

Client tools through that the end user can interact with the database to view the alarms.



# CR.EV.AS Chronological Events Automation Service

It is a software specialized in viewing and recording events;  
Unlike of the traditional SCADA created for displaying graphic pages that integrate the function of chronological events in a "standard way", CREVAS is a software specializes exclusively in viewing and recording events.

The CREVAS is made up of four suites:

CR.EV.AS  
RDB

It is the main suite of CREVAS technology. Via serial interfaces (RS-232 / RS-485) and Ethernet is possible configure Drivers for communication with Event Generators (PLC, DCS, PC, etc.), also in multi-drop configuration, and the historicization of same on database in localhost. Each communication protocol has its own dedicated software structure to allow greater efficiency during the acquisition phases, thanks to the Multi-Threading technology, and a greater completeness of the information made available to the user.

It is also possible:

- / modify driver configurations "On-Line" or create new ones, without risk of data loss.
- / monitor the status of the various active communications thanks to detailed diagnostics
- / activate usage restrictions based on the logged in user
- / create "ad hoc" Drivers to interface CREVAS with new systems or for specific needs.

CR.EV.AS  
VIEW

Associated with CREVAS RDB it allows:

- / the display of On-Line Events acquired by each configured driver in dedicated windows
- / the display of Off-Line Events with Advanced filter functions
- / data export on various formats
- / customization of the graphical interface

CR.EV.AS  
COLLECTOR

For sites with multiple CREVAS installed, it allows the centralization of archived data thus ensuring:

- / data loss prevention
- / remote accessibility for viewing

CR.EV.AS  
REMOTE

Remote client which, in Read-Only mode, allows the:

- / display of Off-Line Events with advanced filter functions
- / dedicated functions for data analysis
- / data export on various formats



# ENERGIAS Reading energy and gas meters

**Multi-utility suite for managing light and gas readings via web portal;**  
**Its features are:**

- / Automatic or manual communication with electricity and gas meters
- / Representation of data in graphical and tabular format for individual meters and sets of meters
- / Data grouping (15 minutes, 1 hour, 1 day, 1 month)
- / Autofill of tax registers for the Customs Agency
- / Automatic import and comparison of consumption forecasts
- / Data export (XLS, CSV, etc. format)
- / Graphic export (BMP, JPG etc. format)
- / Storage of readings on PostgreSQL database
- / Multiutenza-Multiutility

## REMOTE READING OF METERS

Communication with meters can be managed via LAN/Internet, RS232/RS485, Optical interface.

## MULTIVENDOR

Communication with Iskraemeco meters, Methane gas meters with protocol SNAM, Actaris/Itron, Landis+Gyr ZMD, Elster A1700

# GipEX Integrated management of explosive tests

**The system architecture is of the Client-Server type;**  
**There are 3 types of users:**

- / Shift Leader
- / Applicant
- / Operator

A web server hosts the database and the web application that can be used in the PDL workstations for managing activities involving explosiveness tests. The smartphone application GipEx allows operators to view the explosive tests assigned to them, select them, enter the proof and then send it. Sending the measurement, as well as storing the value on the database, requires sending context of an email with an attachment containing the test result.

**The operation is divided into two items which are:**

- / Planning, carried out by means of the web application
- / Sending Test, created by ATEX smartphone

In summary, a candidate or shift manager "Schedules" a task on the system, assigns it to an operator who, for his part, will find it from his own ATEX smartphone a list of tasks to be performed assigned to it; once selected the activity will not have to all you have to do is insert the measure and send it.



CONTROL IT'S  
NOT A LIMIT,  
BUT A POTENTIAL.  
LET'S TALK ABOUT

**automation**service  
We have the answer

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