

AUTOMATION INTERFACES DESIGN AND PRODUCTION



Company Profile

AUTOMATION INTERFACES DESIGN AND PRODUCTION

PURCHASES AND LOGISTICS

- Selection of qualified suppliers
- Management precision speed via automatic store points
- Optimisation of delivery times via main couriers



1

DESIGN

- Integrated hardware/software/firmware design
- PCB Design
- The aid of more advanced systems of simulation, prototyping and testing



2

PRODUCTION

- Flexible production systems
- Automated production with SMT technology
- Burn-In Test and AOI on 100% of products



3

QUALITY AND CERTIFICATIONS

- ISO 9001 certification since 1997
- Continuous improvement of zero waste processes and objective
- CE, UL, MID, ATEX, GOST product certifications



4

ORDERS

- Automated management of orders and confirmations
- Customisation of orders
- Possibility of online and Ecommerce payment



5

SALES

- Global sales network
- Customer real needs analysis
- Pre-sale engineering



6

TECHNICAL SUPPORT

- Multi-channel specialist support
- Technical training and certification
- Mediation between Solution Partner and End Customer



7

MARKETING COMMUNICATION

- Complete protection of web channels, specialist journals, industrial trade fairs
- Affiliation with regulation and industry bodies
- Multi-lingual documentation and website



8

HIGH TECHNOLOGY MADE IN ITALY



Company



Present for approximately 30 years in the industrial automation sector, SENECA has achieved a prominent position in the Italian electronic instrumentation market making innovation, reliability and qualified support its strengths.

SENECA constantly innovates processes and products with investments focusing on latest generation machinery and qualified personnel.

Business Unit



Thanks to the synergy of three business units (Interfaces for Automation, System Division, Supplies & Services) organised according to quality criteria, SENECA proposes a complete offer of automation solutions: from the single component, to the turnkey system, for every requirement.

Mission



SENECA produces multisectoral devices that power, condition and galvanically separate sensors and actuators, so that after being connected to the control unit, no device can be damaged.

The SENECA products provide normalised signals via cable, on bus and wireless to most industrial control systems.

Product Lines



The product lines, designed and produced entirely at the SENECA facilities, are compatible and in line with the most common technological standards.

SENECA intends to confirm and expand its offer of excellence through a wide range of products, in particular with automation technologies that focus on data acquisition, remote control, supervision and energy savings.

Partnership



SENECA collaborates with the main process industries, with SMEs with a high level of automation, with the big players of energy and industry as well as with various University and Research institutes.

SENECA develops a concrete and effective business model, with the aim of solving the real problems customers, believing first in the technologies it offers to the market.

Markets



Electrical and process automation: oil & gas, refineries, chemical and petrochemical plants, steel mills, rolling mills, foundries, paper mills, sugar mills, pharmaceutical industries, cement factories, metalworking, shipbuilding.

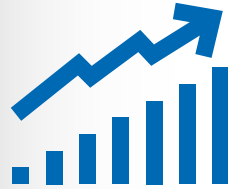
Distribution of electronic components, civil installations, domotics, remote control and remote assistance.

Solutions for the manufacturing sector, utilities and building automation.

A LEADING ITALIAN MANUFACTURER OF ELECTRONIC INTERFACES FOR AUTOMATION



Year of foundation
1987



30% Global turnover on the overseas market
20% Average growth rate



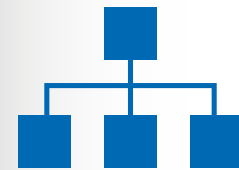
Company
ISO 9001-certified since
1997



60 Employees
34% Engineers qualified to degree level



Global sales network with approximately
70 partners



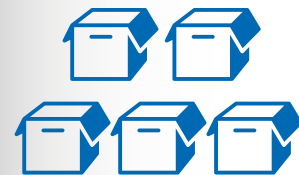
3
Synergistic Business Units: Products, Systems, Supplies



600 Catalogue codes
4 Product lines



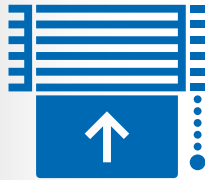
Average order processing time
48 h



150.000
Pieces sold each year



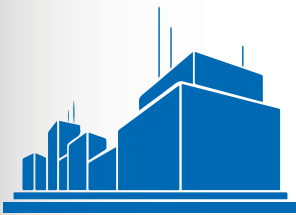
Latest generation
Pick&Place
50.000
components/hour



Automatic store points
with over
70.000
items ready
for delivery



Universal markets
and products
Over
2.000
Active customers



Hi-tech facilities of
5.000
square metres



Average MTBF above
1,000,000 hours
1.000.000
hours



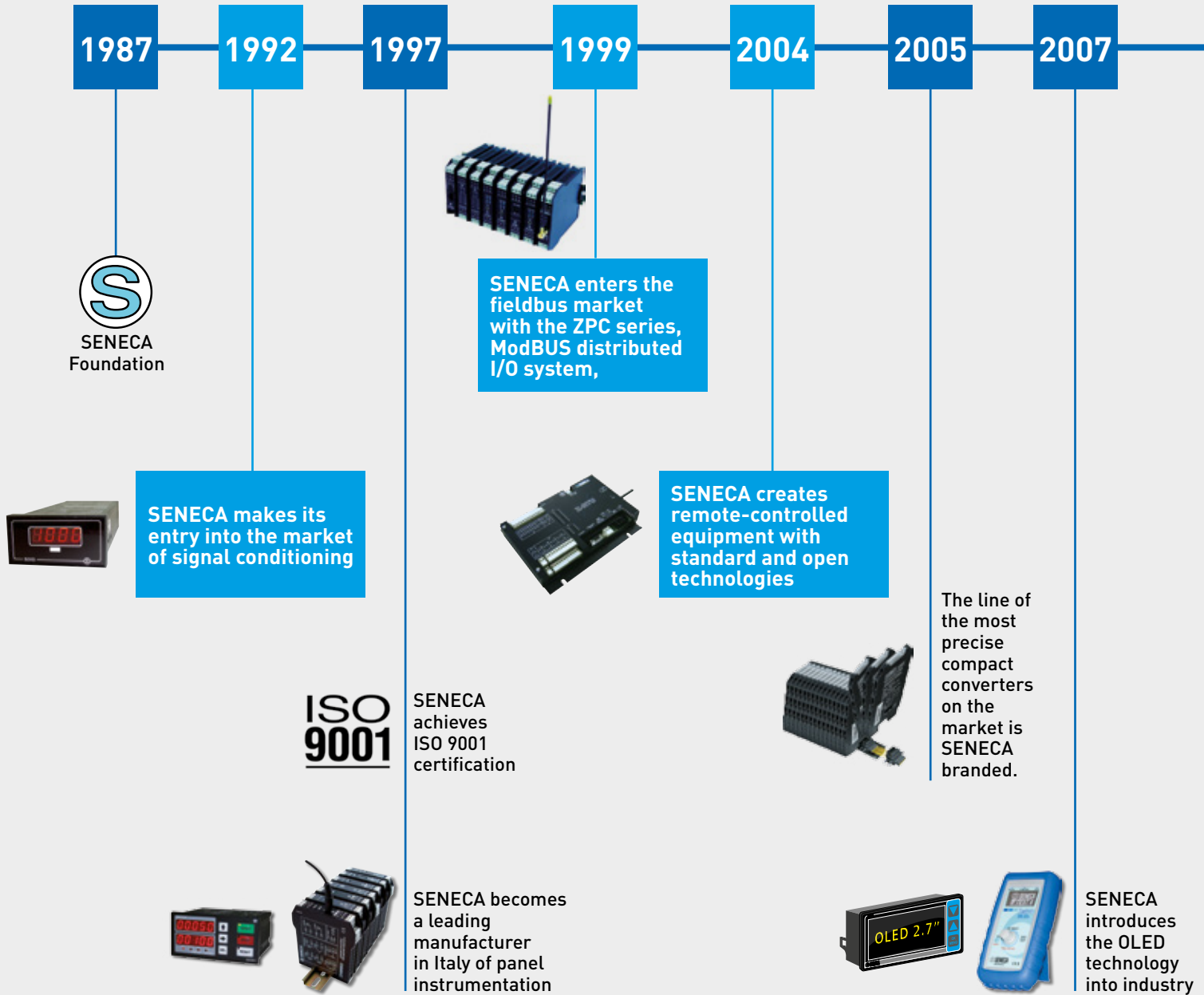
Personlised
warranty up to
60 months



General catalogue
and website
available in
5 languages



A THIRTY-YEAR HISTORY OF GROWTH AND INNOVATION



SIGNAL CONDITIONING AND
 PROCESS INSTRUMENTATION

DATA AND AUTOMATION
 ACQUISITION

2009



CANopen

SENECA completes the processes of innovation and internationalisation, expanding the fieldbus (CANopen) technology and the range of products for electrical measurement and energy efficiency.

2010



With the new products for wireless and networking, SENECA defines the Italian blueprint for industrial communication

2013



Opening of new hi-tech facilities at Via Austria in Padua

2015



RTU & IEC 61131 multi-function controllers



IoT equipment/ remote support

2017



DESIGN, PRODUCTION, LOGISTICS, UNDER THE SAME ROOF





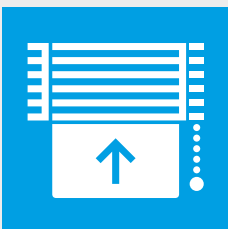
DESIGN

- Integrated management of all the product development phases
- Assistance of the best modelling, simulation, industrialisation and prototyping software
- Adoption of the most advanced micro-electronic technologies (FPGA, PSOC, CPLD, ASIC, DSP, MEMS, LVDS, VHDL)
- Hardware / Software engineering
- Rapid prototyping
- Metrological and electromagnetic compatibility tests



PRODUCTION

- SMT (Surface Mounting Technology) lines for the latest generation Pick & Place machines 50 thousand components/hour
- AOI (Automated optical inspection) and ATE (Automatic Test Equipment) systems
- Burn-in test on the entire production
- Lean Production for rapid changes in production cycles
- Production process fully compliant with the eco-compatible directives WEEE, ROHS and REACH



STORAGE

- Prompt delivery of over 70,000 items
- Safe and high-density storage in 12-meter high towers
- Equivalent storage capacity of 1,000 square meters
- Real-time connection with ERP
- Complete traceability of products



WIDE PRODUCTS PORTFOLIO, DIVERSIFIED AND IN CONSTANT EVOLUTION



DATA AND AUTOMATION ACQUISITION

The SENECA product line for Data Acquisition and Automation includes systems with **ModBUS I/O**, **CANopen**, **Ethernet**, HMI with Led and Oled technology, **Straton IEC 61131** logic controllers compatible with Scada systems thanks to **OPC** and **Web** technologies. Energy Management controllers are also available with **IEC 60870-5-101**, **IEC 60870-5-104**, **IEC 61850**, flow computer and pump controller protocols.



INDUSTRIAL AND REMOTE CONTROL COMMUNICATION

The Industrial and Remote control Communication line includes industrial modems and gateways, **VPN** routers, **UHF/VHF** radio devices, **serial** and **fiber optic** communication interfaces as well as **remote control**, **remote alarm** and **remote assistance units**. SENECA also offers Cloud-IoT platforms for remote data access and for the monitoring of smart objects, as well as full support of the **PPP**, **SMTP**, **HTTP**, **FTP** and **3G+** network technologies.



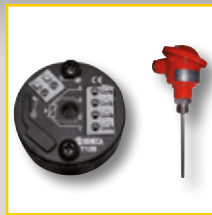
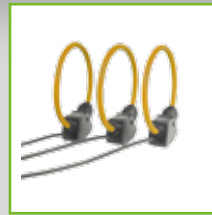
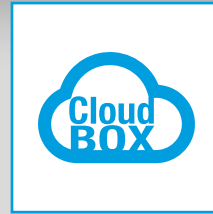
ENERGY AND ELECTRIC MEASUREMENTS

The SENECA Energy and Electrical Measurement line forms part of systems for the monitoring of consumption such as **current transducers**, multifunction Modbus **network analysers** with web servers, harmonic analysis and **Rogowski** sensors, as well as **energy meters**, also with **MID** certification.



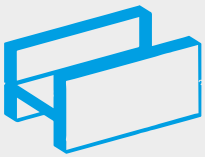
PANEL AND MEASUREMENT INSTRUMENTATION

SENECA offers the most advanced optical, capacitive and inductive technologies for signal normalisation. In the Panel and Measurement Instrumentation line, there are **signal converters**, **galvanic isolators**, digital **indicators**, totalisers, **predeterminators**, **protections against overvoltages**, stabilized power supplies, professional temperature and humidity **probes** and multifunction **calibrators**.



INTERFACE SOLUTIONS AND CONTROL FOR EVERY INDUSTRIAL AND PROFESSIONAL SECTOR

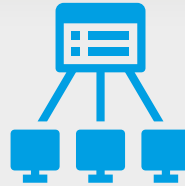
Steel Mills and Metal Machining



Waters and Water Treatment



Data Acquisition



Environment



Chemical Pharmaceutical



Energy and Renewable Sources



Food & Beverage



Laboratories and Testing



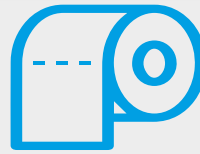
Automation
and Production
Control



Building,
Transport and
Infrastructures



Paper
and Cellulose



Concrete and
Brickwork



Oil
& Gas



Remote Control and
Remote Assistance



Thermotechnics



THOUSANDS OF CUSTOMERS IN THE GLOBAL MARKET

SENECA is a reliable partner in most industrial sectors. Thousands of customers in the Italian and international market successfully use SENECA products and solutions. As a producer of a large and innovative catalog of electronic instrumentation for signal interface and control, SENECA is present both in the industrial process and in the manufacturing and batch sectors, with a production and sales capacity of several tens of thousands of pieces/year. We report here just some of the main customers.

PROCESS INDUSTRY



TECH BUILDERS



ENGINEERING & OEM



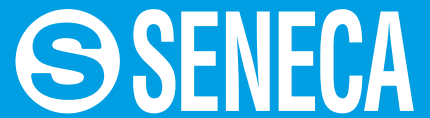
UTILITIES AND NETWORKS



DISTRIBUTORS AND RETAILERS



IN THE HEART
OF THE NORTH EAST



PADUA



VENICE

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from one of the most beautiful cities
in the world.





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PD Chamber of Commerce Registration no. 236346

Share capital fully paid up € 2,500,000,00

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