

# ELECTRONIC TRANSDUCERS

**ELECTRONSYSTEM**

WWW.ELECMD.IT - SINCE 1992



# WHY MONITORING

Reliability of modern automation process is a key point to guarantee on time delivery and quality assurance.

No compromise is acceptable and the top efficiency is a must to compete in a such complex environment, so all the potential risks and failures must be reduced as much as possible.

## How?

Digitalization of each peripherals allows to get an integrated net of parameters which can be analysed and elaborated in order to get a complete vision of instantaneous situation and predict with accuracy the future evolution of the system.

Transducers are the devices which can read the primary critical parameters and transmit all the data to elaboration stations to guarantee the workflow in the rated and safety conditions.

To improve system reliability, plan maintenance scheduling and reduce workloads, real-time monitoring and smart grid technology are becoming common rule for new automation process; data are transferred by quick link or bus from operation field to control rooms where prevention and online monitoring take place.

## SGM/MI MULTIPARAMETER



- Moisture monitoring of air or any gases.
- Multiparameter measurement available: pressure, temperature, density, PpmV, relative humidity, dew point temperature.
- Excellent long term stability.
- Dry contacts for low and alarm set points (optional).

## ELECTRONIC PRESSURE TRANSDUCER



- Monolith ceramic pressure sensor based on bridge resistance variation principle.
- Low cost.
- Compatible with UL sanitation.
- IP 65 degree protection.
- Compatibility with corrosive fluids.

## OLED DISPLAYS



- Visualizations up to 4 for page with remote alarms.
- Multi voltage range input.
- Digital inputs or analog 4-20 mA or others.
- Serial communications Modbus RTU slave and master.
- An additional programming mobile App for RFID/NFC connectivity is available for Android devices.

Our electronic transducers with OLED displays are able to measure and visualize key parameters such as pressure, temperature, moisture, density of any type of gas or fluid by proven and reliable technology.

## ELECTRONIC DENSITY TRANSDUCER



- Immediate reading of any gas density, no acclimation period.
- Continuously monitors pressure, temperature and density.
- Digital or analogue outputs available:
  - \* Digital: RS485 Modbus RTU for smart grid application
  - \* Analogue: powered 4-20mA 2-wire loop
- Polymer filled to protect components from dust, moisture, and vibration.
- Indoor or outdoor use, IP67 protection.

## ELECTRONIC DEW POINT TRANSDUCER



- Continuously monitors moisture allowing user to ensure manufacturer's specified limits are not exceeded.
- Moisture calculation is based on measurement of physical data: relative humidity HR% and temperature.
- Pressure range -1 to 10 bar rel.
- Wide range measurement of dew-point (-60°C - +20°C).
- Patented, chemically resistant, polymer sensor.

Electronic transducers like pressure sensors, temperature readers, moisture detectors are general purpose primary elements which can be combined to create specific supervision for the various sectors: automation, pneumatics, food&beverage, machinery, naval, chemical process controls and so on.

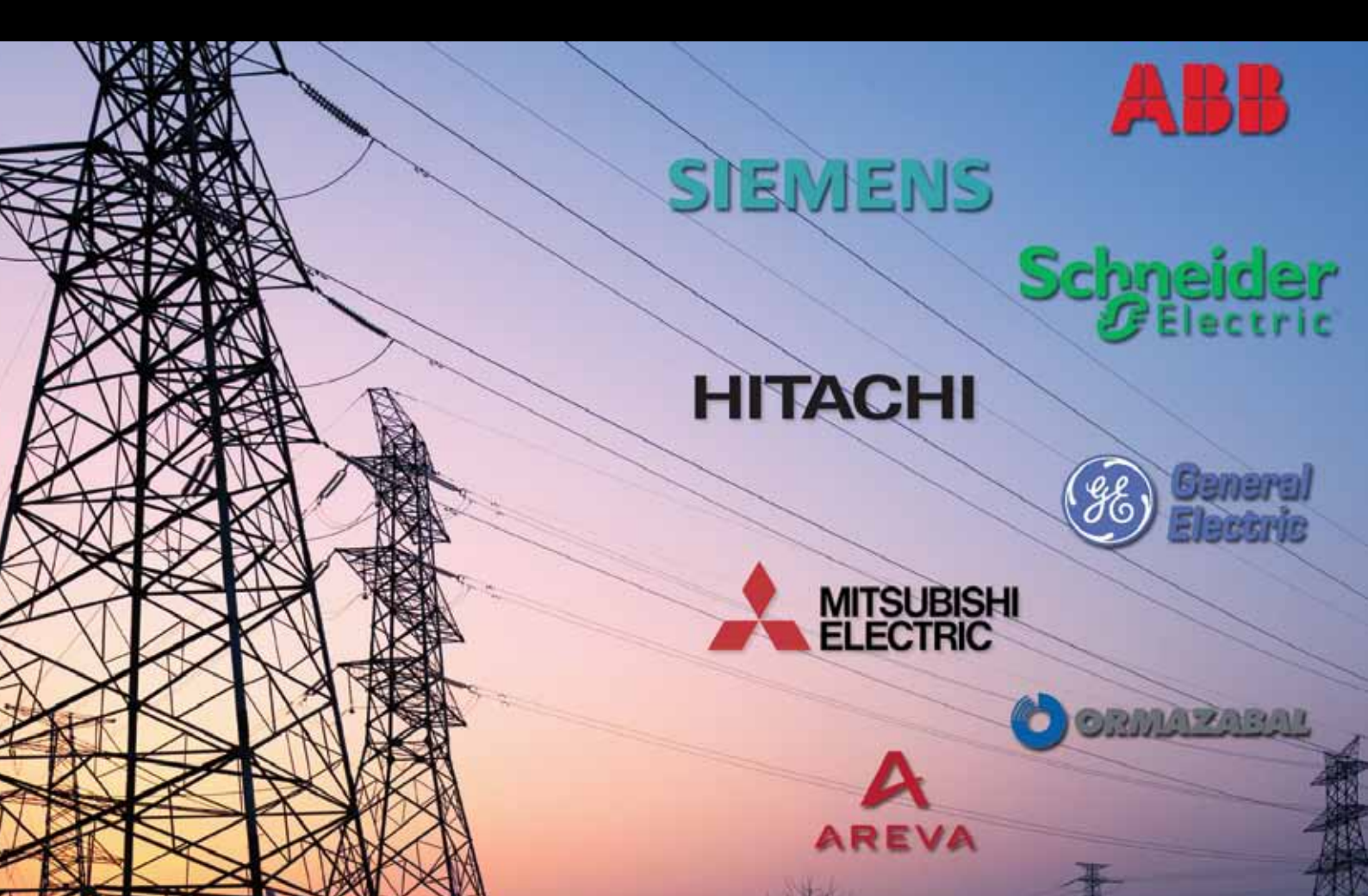
Electronsystem supplies state-of-the-art electronic transducers and finds the best way to combine, adapt and customize them for your specific sector.

Our multiple disciplinary know-how of 25 years' experience sustains our skills in finding the best technical and economical solutions in the most different field of operations.

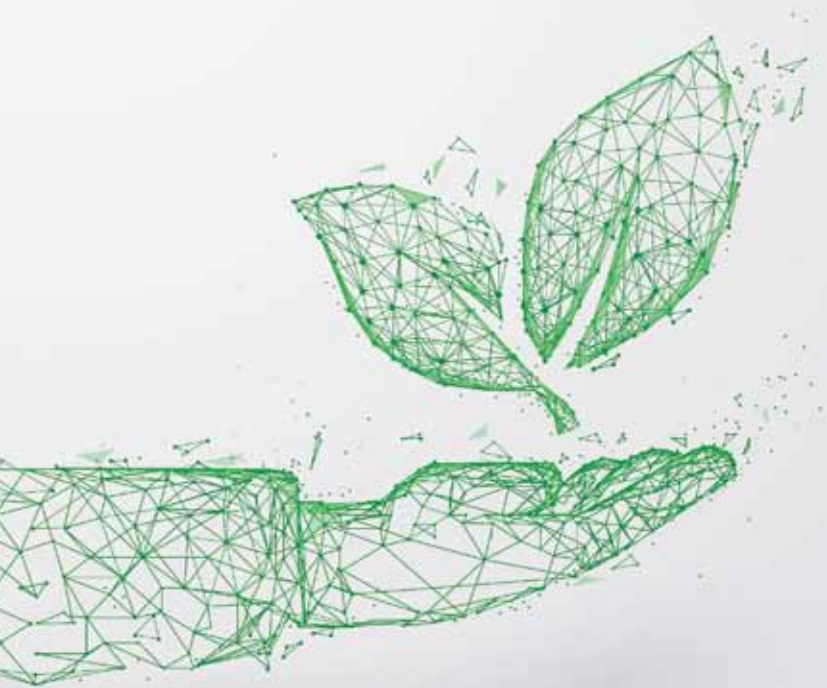
## THE COMPANY

ELECTRONSYSTEM MD is a leading Italian company who specializes in developing and producing a broad range of products for use on medium (MV) and high voltage (HV) switchgear and devices.

Our human resources are vital to success: over 30 educated specialists are employed and continuously trained in order to stay up-to-date with market trends and improvements. This allows EMD's Research and Development staff to offer the best solutions, products and services to our global customers.



**ELECTRONSYSTEM**   
WWW.ELECMD.IT - SINCE 1992



WE ARE READY FOR ANY KIND OF  
GASES: TRADITIONAL, GREEN AND  
ALTERNATIVE MIXTURES

---

**HEADQUARTERS:** Via Madonna delle Rose 72, 24061 Albano Sant'Alessandro (BG)  
ph: +39 035 584000; email: info@elecmed.it