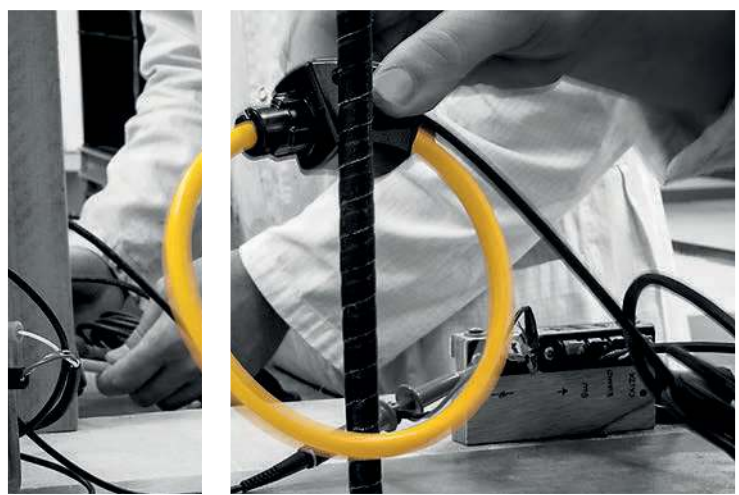
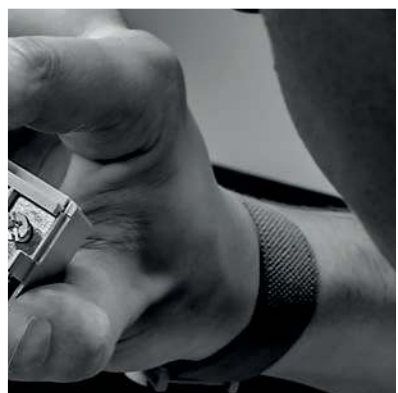
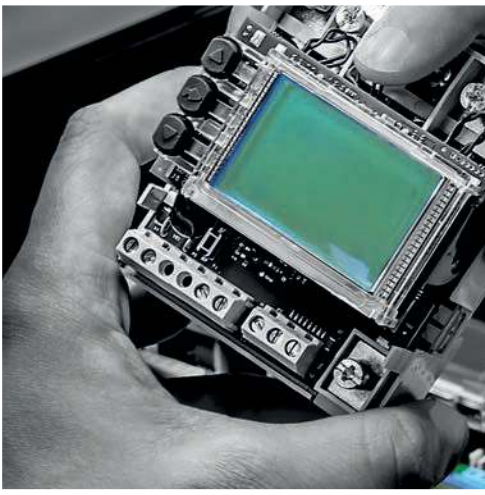


**algodue**<sup>®</sup>  
ELETTRONICA



**SOLUTIONS FOR  
ENERGY  
MANAGEMENT  
AND CONTROL**



**MADE IN ITALY**

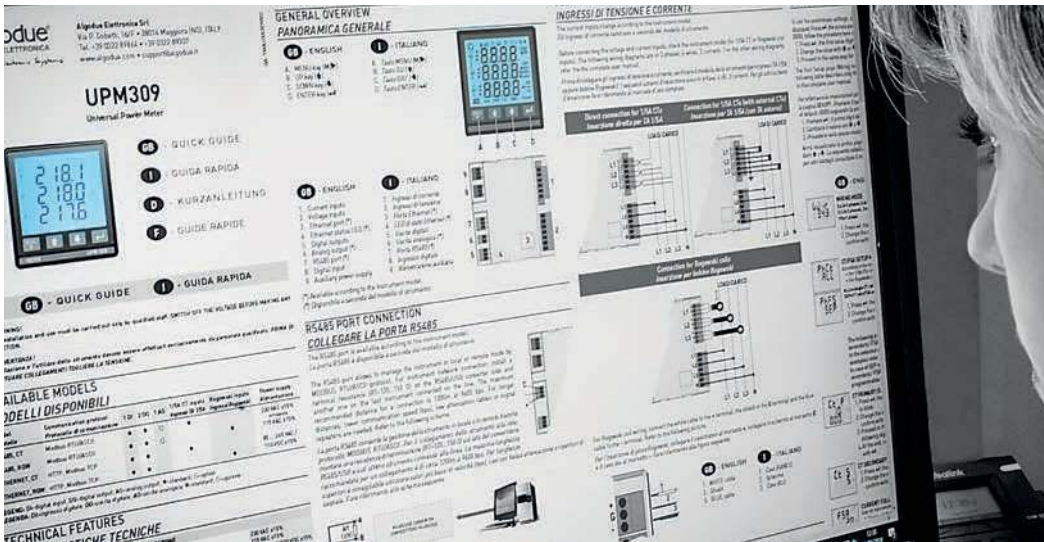


foundation  
year

1986



design and  
production  
company



3000 m<sup>2</sup> new  
headquarters



pieces sold  
every year

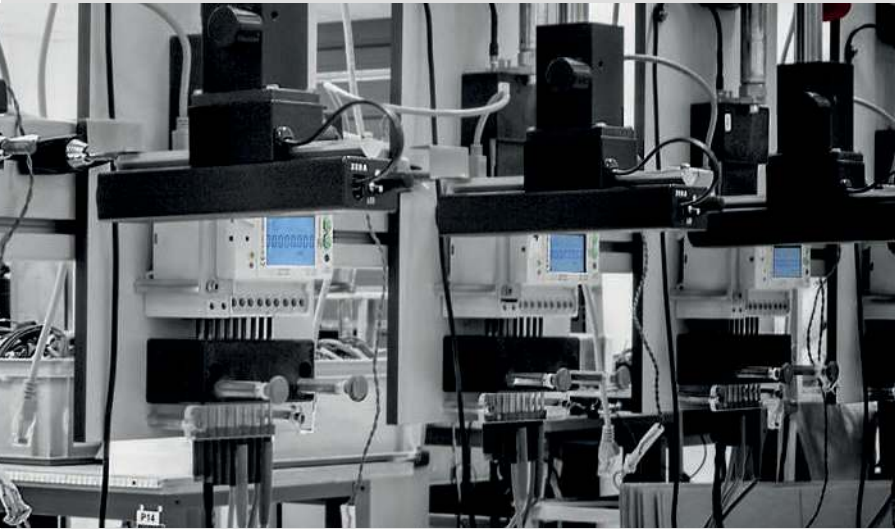


product  
lines



rate of  
average growth





export turnover rate



partners in 70 countries



ISO 9001:2015 certified company



more than 9 product and project certifications (UL, MID, GOST-R...)



employees



item codes in the catalog



documentation available



## PRODUCT CUSTOMIZATION SPECIALISTS

All our products can be adapted, customized and developed according to specific project or market requirements. Our Research & Development Department, with the collaboration of our sales staff, is able to support you from the first feasibility study, through the development of your type of customisation, up to its production and delivery, ensuring high standards of quality and flexibility.



## CONTINUOUS SEARCH FOR INNOVATIVE SOLUTIONS IN OUR R&D LABORATORIES

Innovation is one of our corporate values, for this reason we constantly invest in new technologies to achieve our ideas. Our Research & Development department, made up of qualified engineers and technicians, has a high technical and industrial know-how thanks to which we develop projects from the very beginning. Working closely with the production area leads these projects to become real, placing Algodue at the forefront of the sector.



## TECHNICAL TEAM AND MULTILINGUAL SALES FORCE

The Algodue team is made up of young, ambitious and passionate people who help to enrich a unique heritage of highly specialized technical knowledge in the energy measurement sector, matured and consolidated in thirty years of work on the field. We work hard to be dynamic, enterprising and proactive. We listen to our customers and adapt to the most diverse needs for both small and large volumes. This is why we guarantee a fast and rapid supply chain.

# NETWORK ANALYZERS

Power analyzers for energy control in industrial environment for Din Rail and panel mounting (96x96mm).

Suitable to be combined to Rogowski coils.



## UPM209 | UPM309

*Small size, high performance*

### FEATURES



THD & HARMONICS



UP TO 8 MB MEMORY



ETHERNET & RS485



REAL TIME VALUES



UP TO 24 REGISTERED PARAMETERS



### BENEFITS

- Compact
- Generation of consumption profiles
- Alarm page on the webserver
- Excellent performance/price ratio
- Reduction of electricity consumption

### APPLICATIONS

- Energy audit
- Energy monitoring
- Load monitoring of single machines

## SMART KIT: UPM209RGW | UPM309RGW

*Measuring is smart*

### FEATURES



THD & HARMONICS



UP TO 8 MB MEMORY



ETHERNET & RS485



EMBEDDED WEBSERVER



3 ROGOWSKI COILS



### BENEFITS

- Compact
- Installation without switching off plant
- Full scale selectable on the field
- Fast installation
- Kit ready to use

### APPLICATIONS

- Retrofitting
- Energy audit
- Switchboards, generators etc.

## UPA20 | UPA30 | UPA41 + PLUG-IN MODULES

*Easy to use*

### FEATURES



MODULARITY



REMOTE DETECTION OF CONSUMPTION



I/O



CLASS 0.5S



THD & HARMONICS



### BENEFITS

- Suitable to be combined with Plug-in Modules
- Multilingual manuals
- Easy to use
- Wiring error detection
- Compliance to IEC 61557-12

### APPLICATIONS

- Switchboards, generators etc.
- Energy monitoring
- Load monitoring of single machines

# MID ENERGY METERS

Single and three phase meters for consumption measurement and control, MID certified, with built-in communication or to be combined with communication modules.



## UEM SERIES *Compact and versatile with built-in communication*

### FEATURES



EN 50470-1  
EN 50470-3



ETHERNET  
RS485 & M-BUS



THREE PHASE &  
SINGLE PHASE



SO OUTPUT FOR  
PULSE EMISSION



ACCURACY  
CLASS B OR C



### BENEFITS

- Remote management
- For billing purposes
- Models with operating temperature up to 70°C
- Single phase: direct connection 40A and 80A
- Three phase: 1/5 A CT and direct connection 80A

### APPLICATIONS

- Charging stations for electric vehicles
- Measurement of energy generated by renewable sources
- Totalization of the electric energy for single machine

## UEC SERIES *Simple and reliable*

### FEATURES



EN 50470-1  
EN 50470-3



THREE PHASE &  
SINGLE PHASE



SO OUTPUT FOR  
PULSE EMISSION



UP TO 30 PARAMETERS  
DISPLAYED



ACCURACY  
CLASS B OR C



### BENEFITS

- Suitable to be combined with communication modules
- For billing purposes
- Fully bi-directional 4-quadrant
- Single phase: direct connection 40A and 80A
- Three phase: 1/5 A CT and direct connection 80A

### APPLICATIONS

- Accounting and billing of consumptions in camp sites, malls, residential areas, naval ports, office buildings etc.
- Measurement of energy generated by renewable sources

## COMMUNICATION MODULES *Easy to install*

### FEATURES



CONNECTION BY  
OPTICAL PORT



RS485



M-BUS



LAN GATEWAY



1 OR 2 MODULES



### BENEFITS

- Suitable to be combined with UEC energy meters
- Compact
- Easy to use
- Possibility to switch the use according to the required application

### APPLICATIONS

- Measurement of energy generated by renewable sources
- Totalization of the electric energy for single machine
- Totalization of consumptions for civilian and industrial buildings

# ROGOWSKI COILS

Flexible Rogowski coils to be combined with integrators or suitable measurement devices to achieve a compact measuring system.



## MFC140 | MFC150

*Excellence in the accuracy*

### FEATURES



COIL CROSS SECTION 7 OR 8 mm



WITH OR WITHOUT BUILT-IN INTEGRATOR



MEASUREMENT FROM mA TO VARIOUS kA



UL 61010-1  
UL 2808



COMPLETELY SHIELDED



### BENEFITS

- Installation without interruption of plant
- Fast installation
- MFC150 can be combined with UPM209 and UPM309 (Smart Kit)
- Suitable for portable devices
- Rejection to the external current conductor

### APPLICATIONS

- Retrofitting
- Very high current measurement
- Measurements in limited spaces

## MFC190

*High sensitivity*

### FEATURES



COIL CROSS SECTION 12 mm



OUTPUT VALUE: 0,3 V/kA



MEASUREMENT FROM mA TO VARIOUS kA



UL 61010-1



COMPLETELY SHIELDED



### BENEFITS

- Installation without interruption of plant
- Fast installation
- Suitable for portable devices
- Rejection to the external current conductor
- It can be hanged on the measured conductor

### APPLICATIONS

- Retrofitting
- Measuring devices, lab instrumentation
- Very high current measurement

## ROGOWSKI INTEGRATOR

*Flexible systems*

### FEATURES



TO BE COMBINED WITH MFC150



DIFFERENT SELECTABLE SCALES



DIFFERENT OUTPUTS



DIN RAIL



SUPPLY



### BENEFITS

- Single phase or three phase
- Linear response in a wide field of frequencies
- High current value
- Real RMS value output

### APPLICATIONS

- Integrated part of a monitoring system
- Suitable to be combined with PLC
- High current value (hundreds of kA)



# PQ METERS - CLASS A

Class A Power Quality Analyzers certified according to IEC/EN 61000-4-30:2015 Ed.3 to monitor power quality both for industrial applications and utilities.



## PQM4000 CT

*Class A: top of the range*

### FEATURES



CT INPUT



IEC/EN 61000-4-30:2015 ED.3



ETHERNET, WIFI, RS485 & USB



HARMONICS & INTERHARMONICS



EMBEDDED WEBSERVER



### BENEFITS

- Data recording for analysis in accordance with EN 50160
- Bundled software for creating a report in accordance with EN 50160
- Evaluate the Energy Quality
- Multilingual user-friendly web interface
- Simultaneous recording of events and Min/AVG/Max values

### APPLICATIONS

- Recording and analysis of disturbances
- Motor inrush current study
- Monitor the electrical power supply
- Data center

## PQM4000 CLAMP

*Class A: touch the excellence*

### FEATURES



CURRENT CLAMP INPUT



IEC/EN 61000-4-30:2015 ED.3



ETHERNET, WIFI, RS485 & USB



HARMONICS & INTERHARMONICS



EMBEDDED WEBSERVER



### BENEFITS

- Data recording for analysis in accordance with EN 50160
- Bundled software for creating a report in accordance with EN 50160
- Evaluate the Energy Quality
- Multilingual user-friendly web interface
- Simultaneous recording of events and Min/AVG/Max values

### APPLICATIONS

- Recording and analysis of disturbances
- Motor inrush current study
- Monitor the electrical power supply
- Data center



- PQM-ANALYZER SOFTWARE FOR DATA ANALYSIS AND REPORT
- EMBEDDED WEB SERVER FOR REMOTE DEVICE MANAGEMENT



Getting together is a beginning,  
staying together is a progress,  
working together is a achievement.

*Henry Ford*

**algodue**<sup>®</sup>  
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