**ELSACO**
# SAM
# **S**MART **A**LL **M**ETERS

*Elsaco SAM OCR is an Elsaco patented solution released in 2015, following 3+ years of development by the R&D department.*

*The Elsaco SAM OCR solution is an Internet of Things (IoT) application, helping both public utility companies and consumers in a variety of ways, beyond simple accounting.*

## UNIVERSAL

Mechanical and digital meters for electricity, gas, water, and oil, regardless of the meter manufacturer. Our solution prevails for all of the above meters.

## RETROFIT

Works with all existing meters, no replacement required, non-invasive solution.

## PRECISE

Our OCR engine automatically transforms the meter images into data with no errors.

## INEXPENSIVE

Fast installation, lowest price - our unique solution doesn't require meter replacement or modifications.

## WYSIWYG

The information displayed by meters is remotely recorded in the server's database and instantly available to authorized web and/or smartphone users.

## METER PHOTO

The server records both the meter photos and the OCR results. In case of any uncertainty with the data, images taken at the moment of data acquisition can be compared with the data provided by our application.

## HIGH READING RATE

From 1 reading/day to 1 reading/minute, the speed can be adjusted with a 1-minute precision.
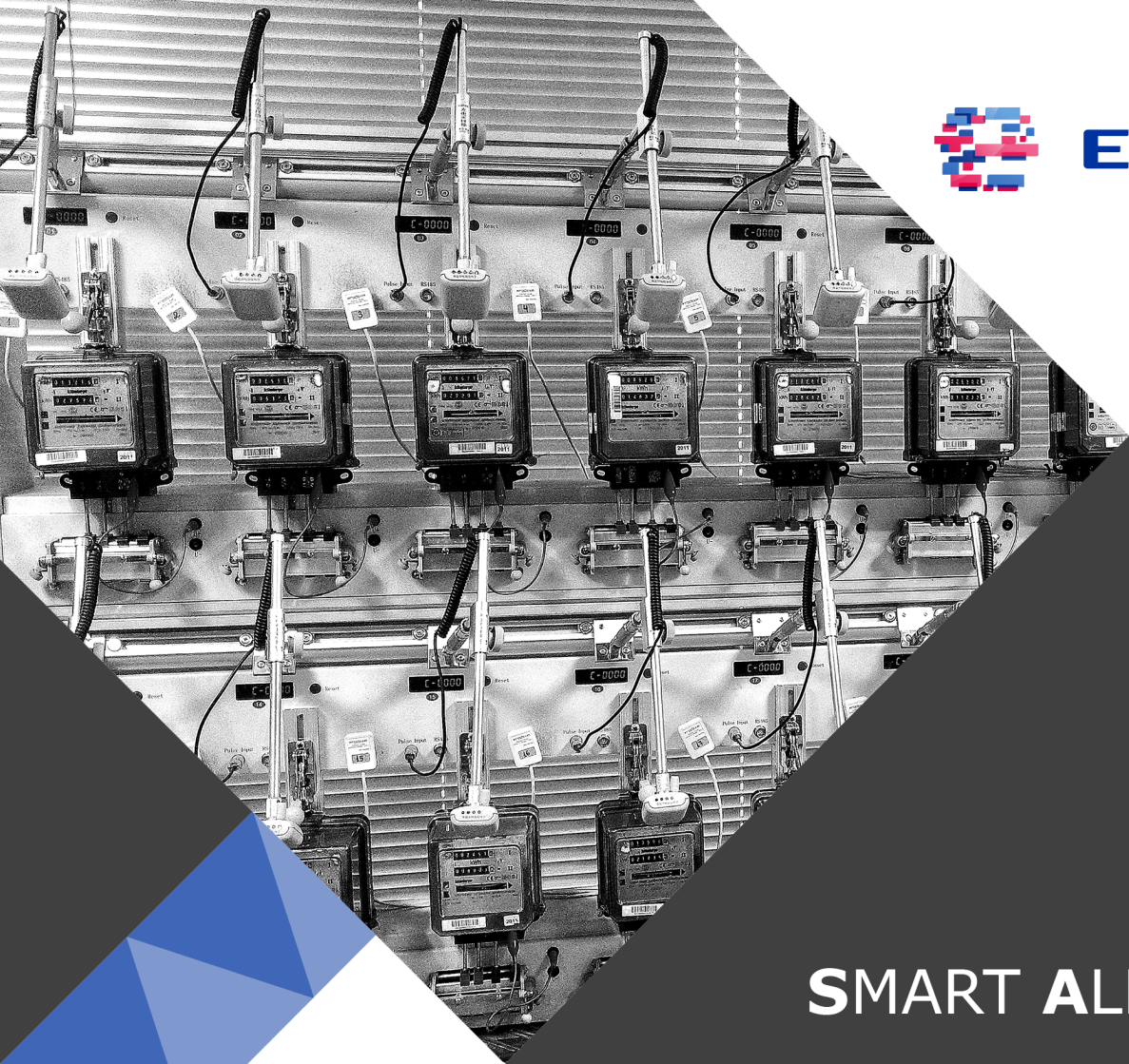
## GET IN TOUCH

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Innovative solutions based on our experience and the needs of our partners.
Solutions for: utilities/smart metering, cyber security, IT&C.

## Main Applications

### Based on Proprietary OCR Technology

The Elsaco SAM OCR solution was developed with an extensive understanding of the importance of deploying meters for utilities businesses.

Elsaco has more than 25 years of experience with water, heating, gas, and electricity smart metering for utilities and for industrial/commercial customers.

### Automation of Remote Meter Readings

There are gas, water, or electricity distribution companies that have to take monthly pictures of meters as part of their invoicing procedure. They also have to manually process those pictures. As a result, their employees spend many working hours in the field taking pictures and in the office checking every picture and manually typing in the values. The Elsaco SAM OCR solution can automatically process those meter pictures at server speed, resulting in significant savings of both time and money for the distribution company. Our customers just have to send the images to the Elsaco SAM OCR cloud server to automatically get back the index values, ready for processing by their billing applications.

### Real-Time Monitoring for Legacy Stations

For industrial customers using analog and/or digital display equipment without a built-in interface for remote readings, Elsaco SAM OCR is the only solution. Using our technology, our clients can benefit from real-time alarms and remote readings of their equipment. Elsaco SAM OCR can also translate switch positions, signalization lamp colors, relay statuses, etc. into digital data.

### Remote OCR for All Types of Meters

Electricity, water, gas, heat, steam, and oil meters, both digital and analog, no replacement required (Elsaco SAM is non-invasive). As our solution is a cloud (or private cloud) application, information from meters can be available to different authorized users. Both the distributors and the residential customers can have access to real-time data from the meters, with the possibility of receiving alerts if something goes wrong.

### For Industrial Customers

Even though almost all meters have interfaces for remote readings, there are situations when some meters can't be read (they have no output interface and are too expensive to replace, meters are owned by the distribution company and have no interface for the customer, etc.). Also, some distributors make meter readings available with a delay (from 1 day up to 1 month), making the information unusable for industrial customers who are trying to optimize their operations in real-time in an effort to decrease costs and increase energy efficiency. Elsaco SAM OCR makes it possible for industrial customers to have real-time readings from their distributor's meters without touching them. The typical read frequency is hourly, but this can be adjusted to as often as once per minute or even once per second, depending on the customer's requirements.

### Automation of Meter Test Benches

Electricity, water, gas, or heat meter test benches can be highly improved by using automatic readings of both mechanical and/or digital meters. By using the Elsaco SAM OCR solution, bench results are accurate, leading to an increase in test bench productivity.