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**Madrid**

# SICK at a glance

Key figures (fiscal year 2023)

**2,307**
SALES
(IN EUR MILLION)

**380**
SALES IN GERMANY
(IN EUR MILLION)

**823**
SALES IN EMEA
(IN EUR MILLION)

**545**
SALES IN AMERICAS
(IN EUR MILLION)

**559**
SALES IN ASIA-PACIFIC
(IN EUR MILLION)

**12,185**
EMPLOYEES

**270**
R&D EXPENDITURE
(IN EUR MILLION)

**3,987**
PATENTS

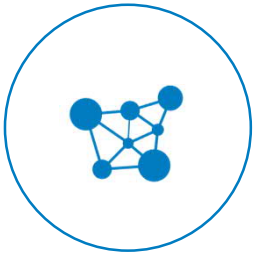
**189**
EBIT
(IN EUR MILLION)

# Cleaner Industries key figures

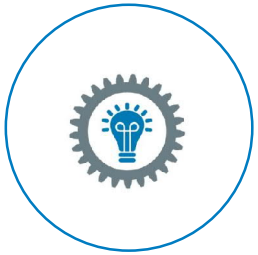
SICK
Sensor Intelligence.

**~630**
emloyees

**12%**
CAGR



**>110.000**
installed base



**9%**
R&D spend / year

(Sensors/Hardware/
Mechanics/Software)

**>150**
Patents

# Decarbonization and Digitalization – using technology for good

Our Vision for Cleaner Industries

***"We create innovations for a sustainable future! We remain true to our roots, and adapt to the dynamism of our market environment, driven by the decarbonization trend. We develop our existing business, explore new markets and technologies, as well as create completely new solutions in co-creation with our partners."***

**DECARBONIZATION**

**DIGITALIZATION**

# Sustainability challenges

Sensors for the new trends

The energy transition is creating **new**, changing **demands** that SICK is addressing with sensor solutions.


We support **low-carbon combustion solutions** while the market uses low-carbon fuels in the **clean energy transition**.

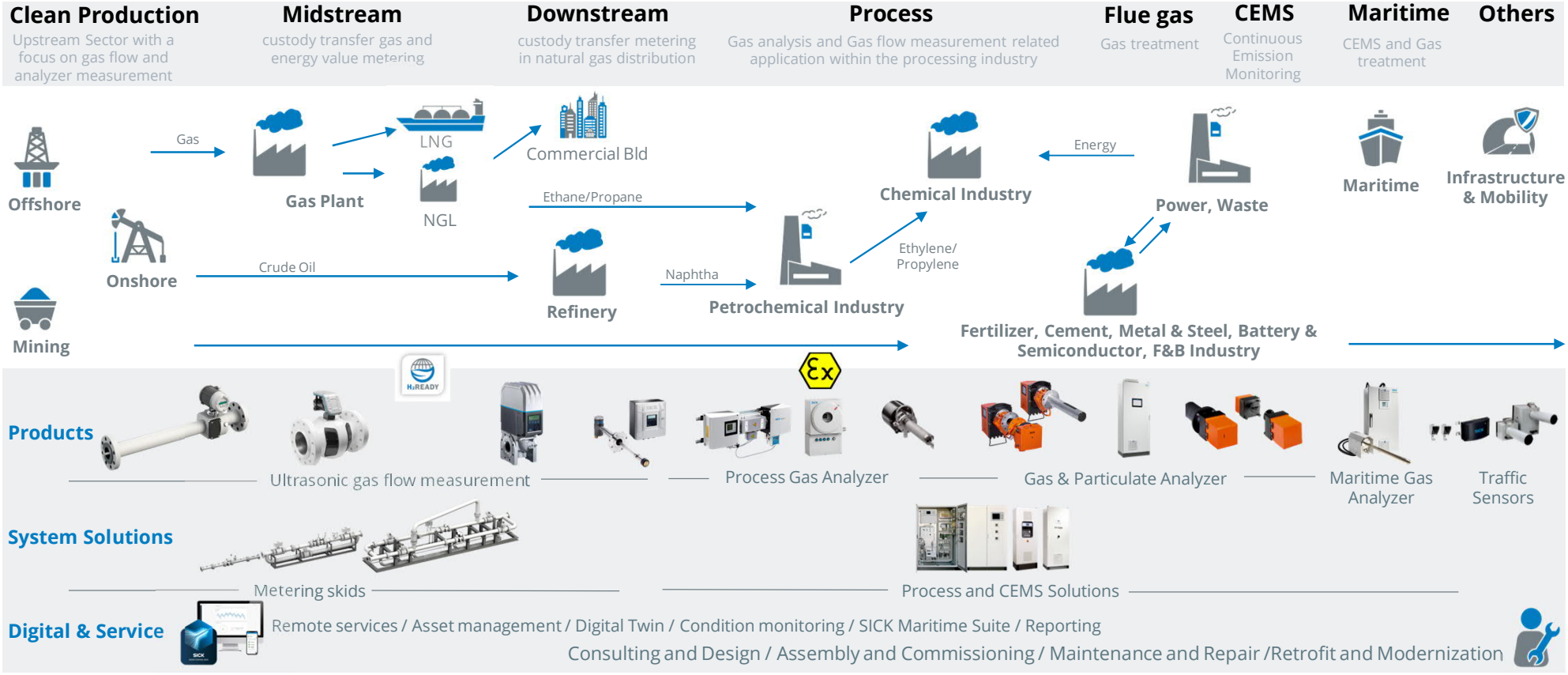
We strive for **decarbonization**

We investigate in sensor solutions for **LNG to power**, **hydrogen** blending in natural gas power plants, **co-firing** power plants, conversion from coal to gas, CO2/GHG certificate trading and or **carbon capture**.

# Solutions for Cleaner Industries

## Markets, Products, System Solutions, Digital & Services

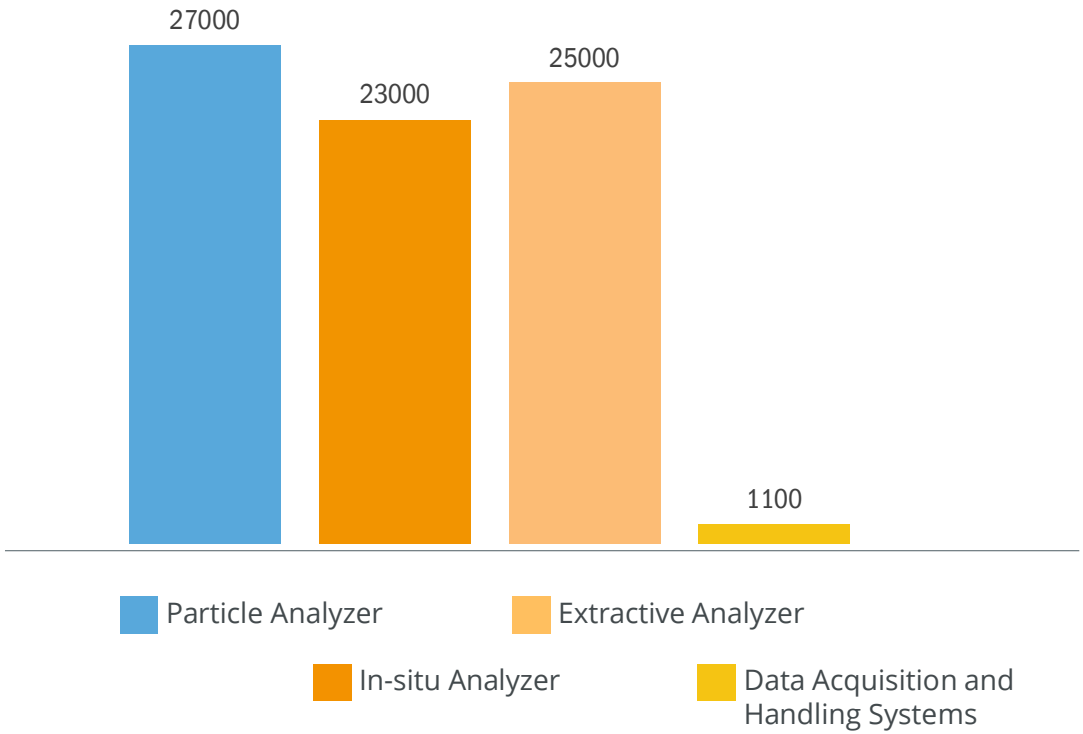
SICK
Sensor Intelligence.



# Analyzer installed base

Snaphot 2021

## Units installed



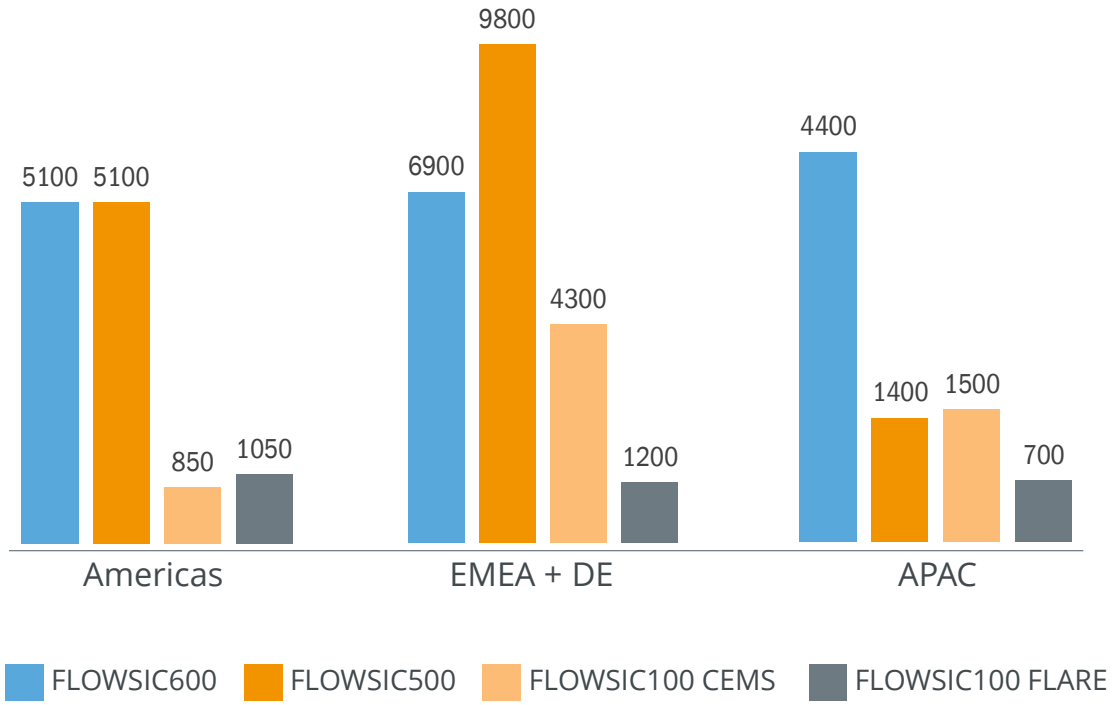

**>75.000**
Installations

**>250**
Service Technicians

# Flow Measurement installed base

Snapshot 2022

## Units installed




**>43.000**
Installations

**>220.000**
Transducers

# Portfolio for energy flow

## Highlights

### Flow meter FLOWSIC600-XT

OIML R 137 Class 1.0, Class 0.5 and AGA9

FLOWSIC600-XT includes i-diagnostics™, a function for intelligent application diagnostics, as well as PowerIn Technology™, which enables continuous measurement operation for up to three weeks in the event of a power failure.

### Flow meter FLOWSIC500

Calibratable measurement in natural gas distribution.

State-of-the-art technology for maximum measurement reliability:

The FLOWSIC500 ultrasonic compact gas meter from SICK ensures highly accurate billing in natural gas distribution.


### Flow meter FLOWSIC550

High-pressure gas flow meter for natural gas distribution.

The new FLOWSIC550 ultrasonic compact gas meter from SICK ensures highly accurate billing of low volume flows in high-pressure networks - a perfect complement to the FLOWSIC500.

### Flow meter FLOWSIC100

Volumetric flow meters for continuous emission monitoring.

The FLOWSIC100 product family was developed for emission monitoring.

# 100% $H_2$ custody transfer measurements

SICK
Sensor Intelligence.

**Fields of application**
- Pure $H_2$ measurement

**Benefits:**
- No pressure loss
- Large turn down
- Permanent health check (diagnostics)
- Gas quality monitoring (speed of sound)
- Low flow and low pressure capability
- Ready for energy equivalent flow – proven H2 flow performance up to 75m/s

**No. of path**
4 path ≥ DN100
2+2 Path DN50/DN80

**Operating pressure**
16...100 bar(a)
Lower Pmin (8 bar) – by request

**Operating temperature**
-40...60 °C

**Inlet piping requirements**
≥10DN

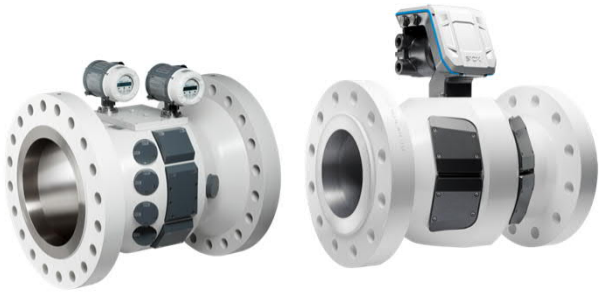
**Accuracy**
0.5%

**Meter size**
DN50...DN600+

**Flow rates**
5m3/h (DN50) to...62 000+ m3/h (DN600)

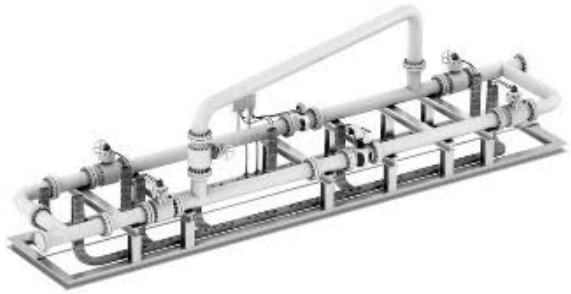
Does this meet your expectations?
Let's talk....

# Carbon Capture Utilization and Storage (CCUS)



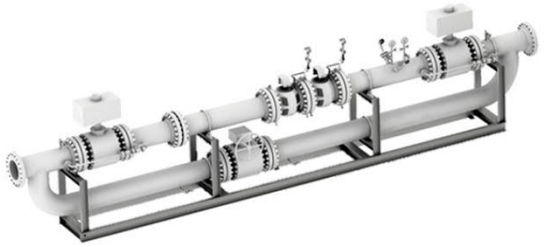
## Flowmeters

› Ultrasonic Flowmeters
$CO_2$ in gas / supercritical phase



## Integrated Measuring Systems

› Metering skids



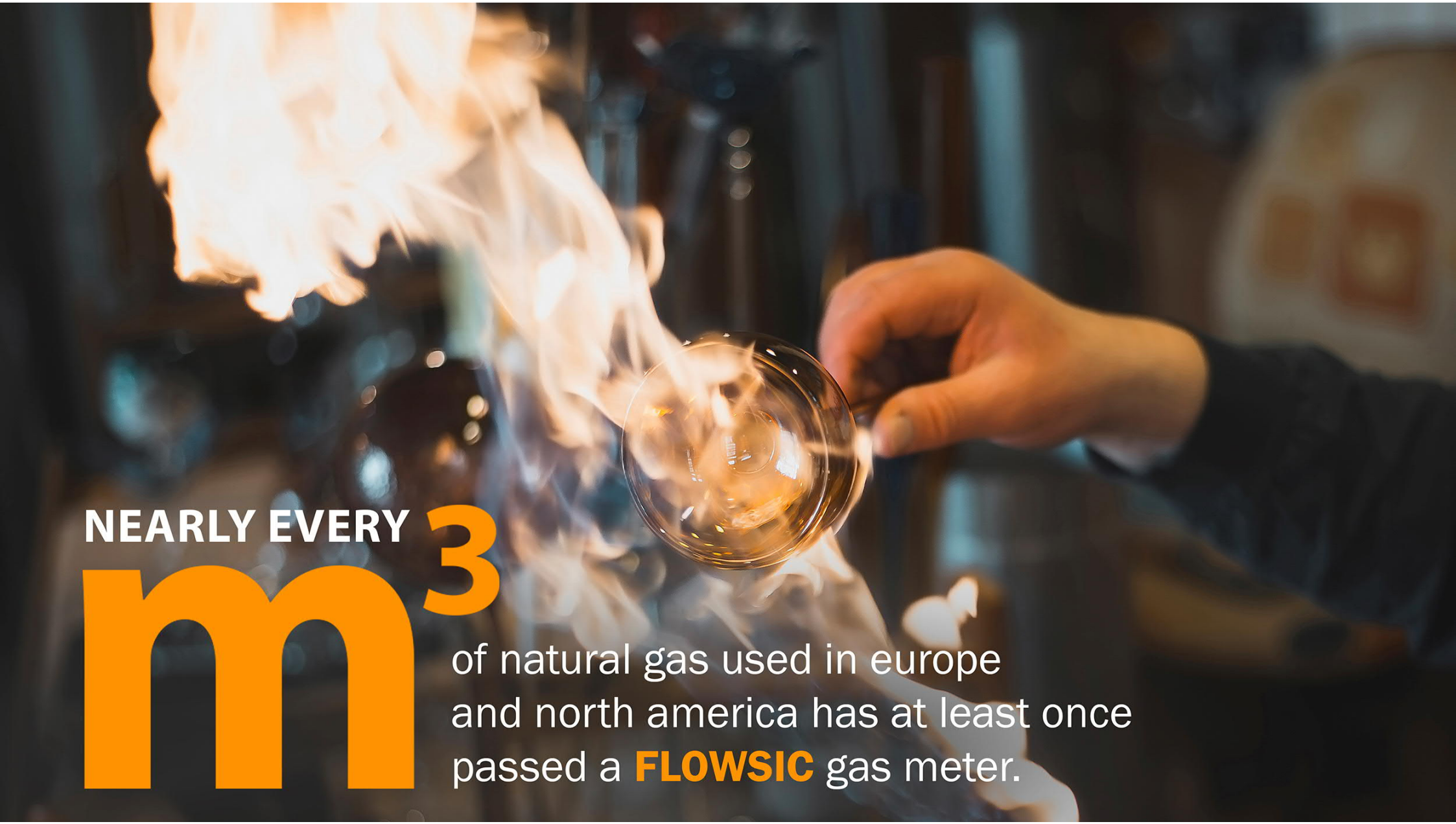
## SICK has been supplying CO2 flow meters for more than 10 years

› $CO_2$ concentration up to 100 vol%

› Pipelines size DN80 – DN600 (3 inch – 24 inch)

› 0 – 250 bar (0 – 3600 PSI)

› Measuring accuracy: +/- 0,5 … 1%


NEARLY EVERY
m3
of natural gas used in europe
and north america has at least once
passed a FLOWSIC gas meter.