

# Next

Multichannel remote monitoring unit  
for cathodic protection



**TECHNICAL BROCHURE**

**Pietro Fiorentini S.p.A.**

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**[www.fiorentini.com](http://www.fiorentini.com)**

# Who we are

We are a global organization specialized in designing and manufacturing technologically advanced solutions for natural gas treatment, transmission and distribution systems.

We are the ideal partner for operators in the Oil & Gas sector, with a business offer that goes across the whole natural gas chain.

We are in constant evolution to meet our customers' highest expectations in terms of quality and reliability.

Our aim is to be a step ahead of the competition, with customized technologies and an after-sale service program undertaken with the highest grade of professionalism.



## Pietro Fiorentini advantages



Localised technical support



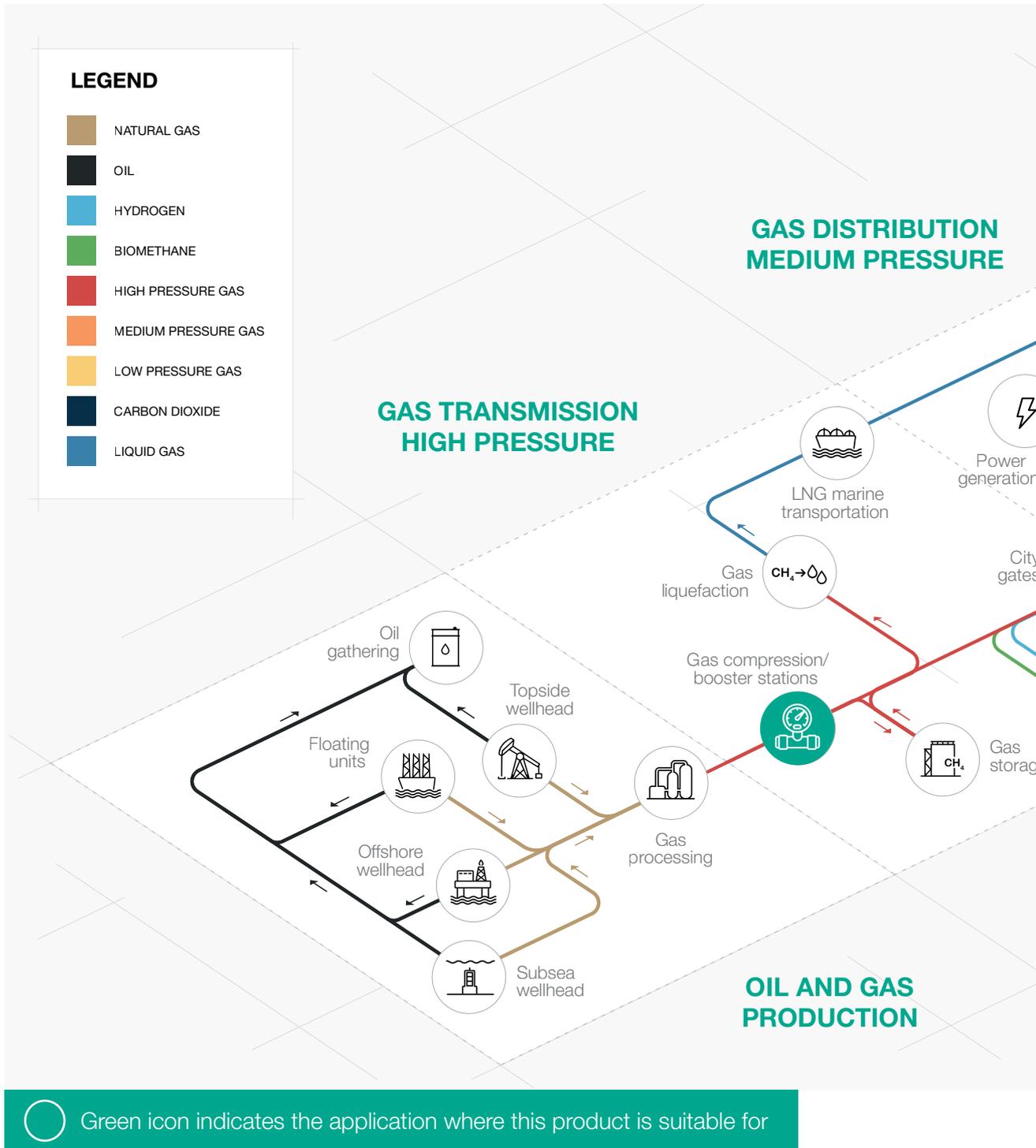
Experience since 1940

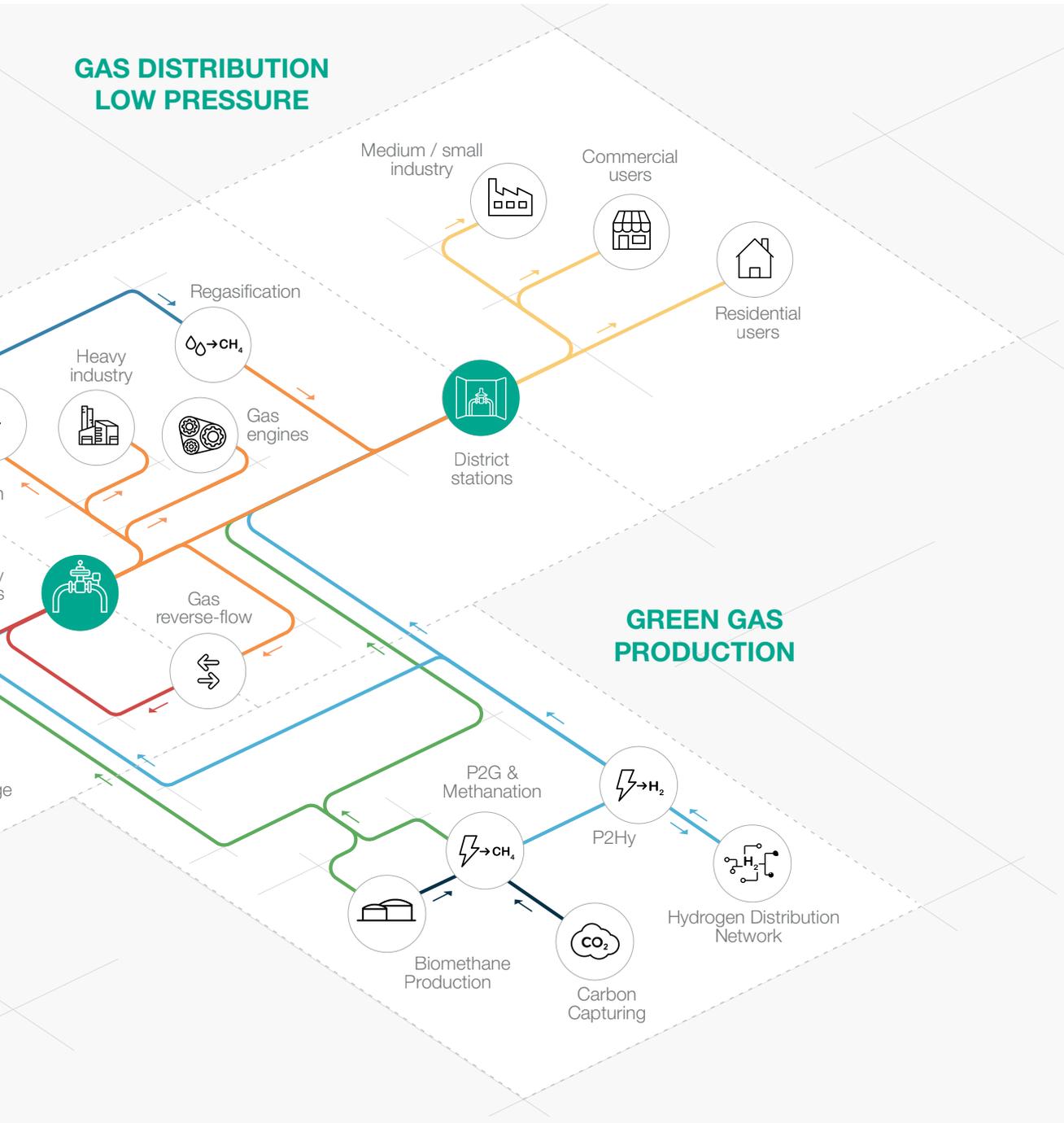


We operate in over 100 countries



# Area of Application





**Figure 1** Area of application map



# Introduction

Next is the new standard multichannel acquisition unit for AC/DC measures.

Next is designed for Cathodic Protection data acquisition and transmission, combining customization and standardization in one unique solution.

Next covers all end users' real operating needs thanks to its several dynamic customization possibilities.

The capability of quick adaptation to the field technical needs, covering every possible requirement, is the key factor of Next.

Technical specifications	
4-measure channels (electrical insulation among channels) for the following measures	
Channel 1: potential	DC: full scale 10 V AC: full scale 70 V
Channel 2: current intensity (*)	DC: full scale 150 mV AC: full scale 150 mV
Channel 3: current intensity (*)	DC: full scale 150 mV AC: full scale 150 mV
Channel 4: voltage	DC: full scale 70 V AC: full scale 70 V
(*) intensity measured by a shunt	

**Table 1** Technical specifications

Dimensions (mm)	
A	80
B	170
C	120

**Table 2** Dimensions



**Figure 2** Next dimensions

### Data transmission frequency and archiving capability

Sampling frequency: 1 ms

Measure frequency: 1 s

Storage frequency: 1 s

Transmission of daily summary values (Minimum, Maximum, Average, Standard Deviation, Number of alarms, out of threshold time, both for AC and for DC)

Transmission programmable by user

**Possibility of performing detailed registrations (LOG), which can be EXTRAORDINARY (upon request), or PERIODICAL (upon request) to selectable among the following ones:**

- CONTINUOUS: registration of 24 hours, with the transmission of the 86400 minutes of the day.
- STATISTICAL: registration of 24 hours, with the transmission of the 1440 minutes of the day (each of which includes the value of minimum, maximum, average, standard deviation, number of alarms, out the threshold time).
- ON-OFF: registration on coupon

QUADRIBAND data transmission: GPRS - GSM

Potential and current intensity measure (intensity measure done by means of a shunt)

ON-OFF programmable table

Possibility of remote modification via internet

Impedance: 10 MegaOhm

Electrical separation among channels: 500 V

Automatic calibration check

Automatic communication to Data Center in case of wrong calibration

Accuracy 1%

Power: battery package, integrated with data logger

Autonomy: 5 years with daily transmission of the summary

Dimension: data logger, shunt, modem, battery package and transmission antenna are all integrated in one unique IP54 container, in order to preserve all the components, included the battery, from external agents.

Data storing: 70 days

Synchronization of data transmission at 24.00

Working temperature: -20° C to +60° C

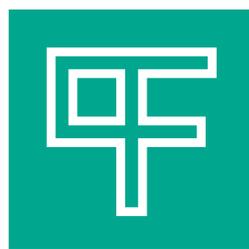
**Table 3** Transmission frequencies

### Options

220 V or solar panel

Additional memory storage on SD card

**Table 4** Options



# Pietro Fiorentini

**TB00102ENG**



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