



**FOR OIL AND
ALLIED PRODUCTS**

MID certificate version
available as well



FOR DIESEL FUEL



**FOR ANTIFREEZE
AND WINDSHIELD
WASHING LIQUID**



HELP THE NATURE

Packaging contains, depending on the articles, one or more of the following materials; they must be recycled in accordance with current regulations in the country of use.

cardboard • polyethylene sack • polystyrene • paper • wood • nails
• plastic strap • cellophane • clips • gummed paper



ECODORA S.r.l. offers a wide range of equipment for fluid dynamics, designed to meet all customer's needs.

Quality, reliability and design that distinguish ECODORA brand are internationally recognized.

A technical service before and after sales suggests the most suitable product according to the customer's needs and provides support even to the end users.

ECODORA S.r.l. looks for a long lasting cooperation with the customers, paying attention to their expectations and offering highest quality products.



www.ecodora.com
info@ecodora.com

CE Made in Italy

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meter



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meter**



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**Digital meter
pulser version**



To make your business safe and efficient
ECODORA offers a wide range of digital
meters and pulsers.

ECODORA is an Italian company that aims to
offer the best through continuous improvement
in terms of performance, functionality
and reliability of the products.

Thanks to years of experience in the sector,
ECODORA's aim is to offer a service suitable
for every customer need.

**Il nostro ufficio commerciale è a vostra disposizione
per fornire informazioni e soluzioni.**

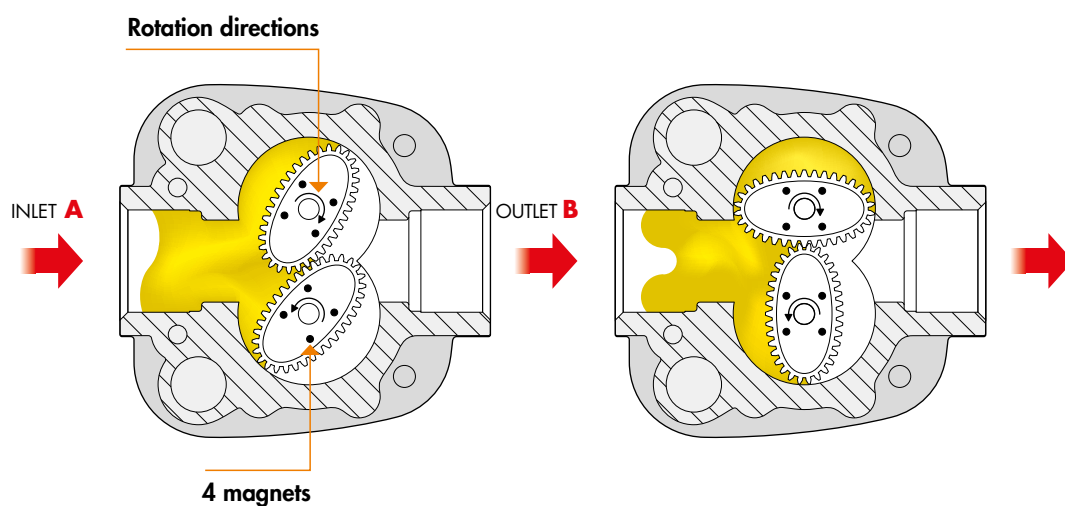
www.ecodora.com

DIGITAL METERS

for lubricating oil, hydraulic oil, diesel fuel, antifreeze and windshield washing liquid and allied products.



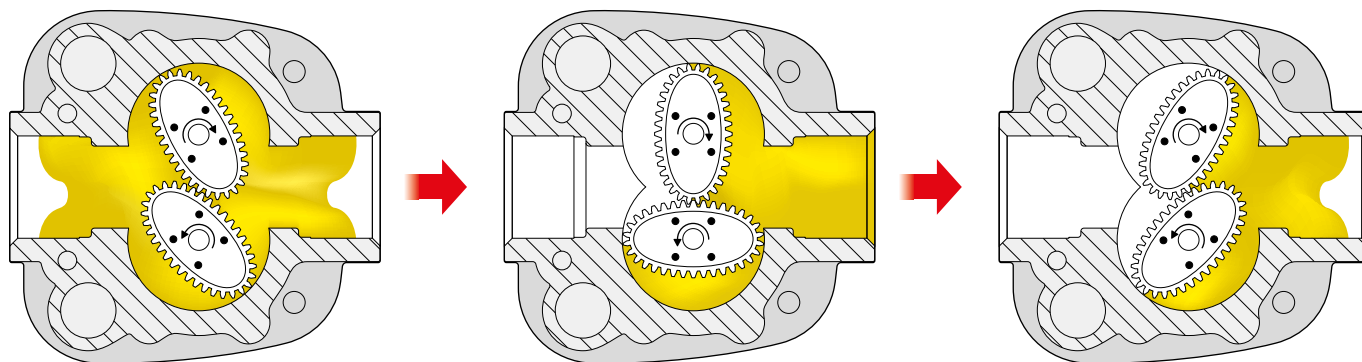
MEASURING PRINCIPLE



When the fluid enter in the oval gear chamber through the inlet "A", the gears start to rotate.
The gears start to rotate because of the pressure of the fluid which comes out from the outlet "B".
Each rotation corresponds to a determinate quantity of fluid.

The new electronic meter is the result of intense research and testing, combining modern manufacturing technology with a simple and intuitive design.

Manufactured with components entirely produced in Italy, including the electronic board sealed inside the sturdy metal body, it is characterized by high resistance and reliability over time, making it suitable for use in any conditions.

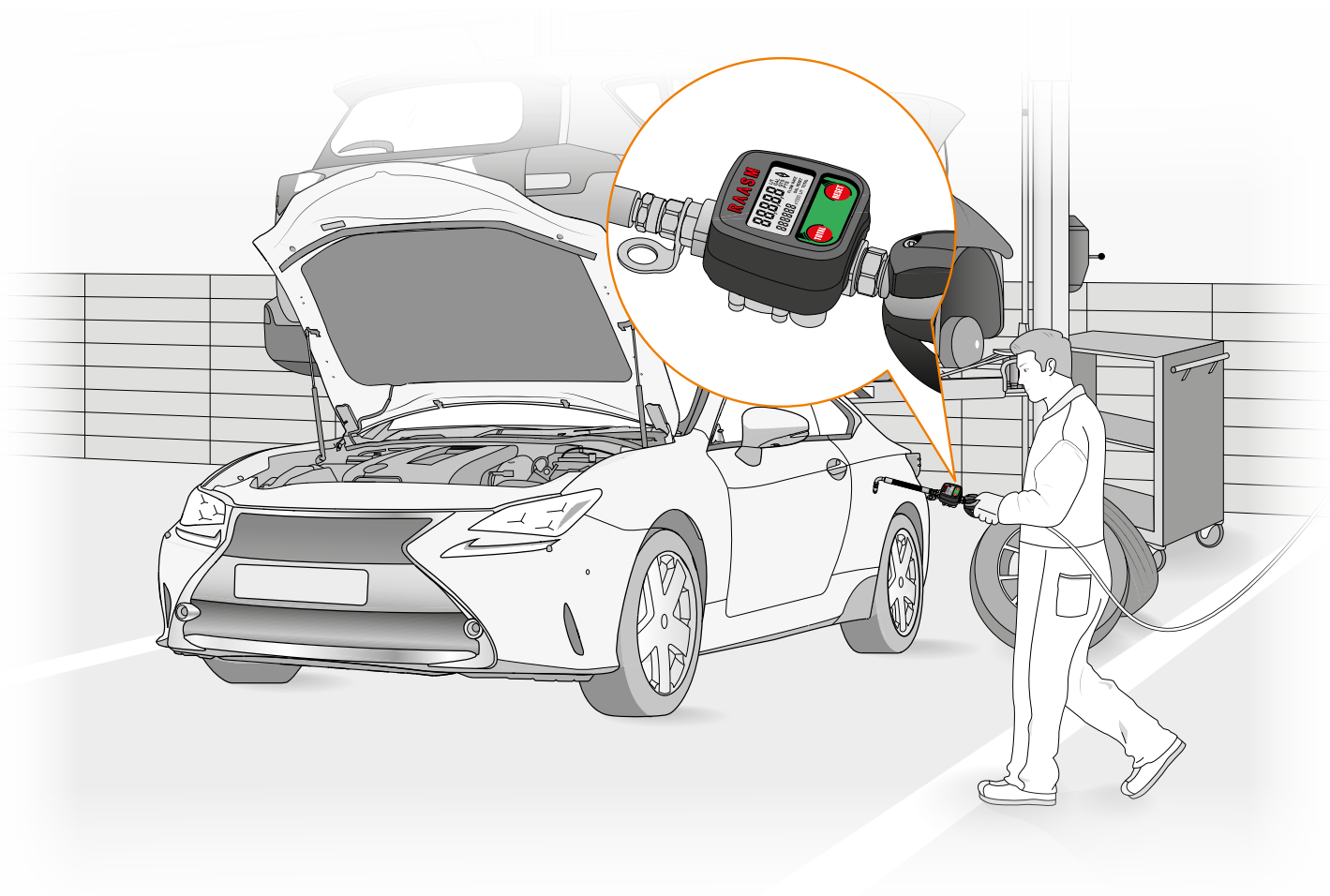


Correct dimensional tolerances between gears and chamber grant the reliability and the accuracy of the meter.

4 magnets, placed on one of the two gear, give the pulses to the microprocessor during every rotation.

DIGITAL METERS





Battery low
level indicator

5 digit
resettable totalizer

6 digit non resettable totalizer
and instant flow rate

Total may be multiplied
by x10 - x100 - x1000

Unit: Litre - Gallon -
Pint - Quarter

FLOW RATE
indication

TOTAL or RESET TOTAL

Total-Unit: Litre - Gallon

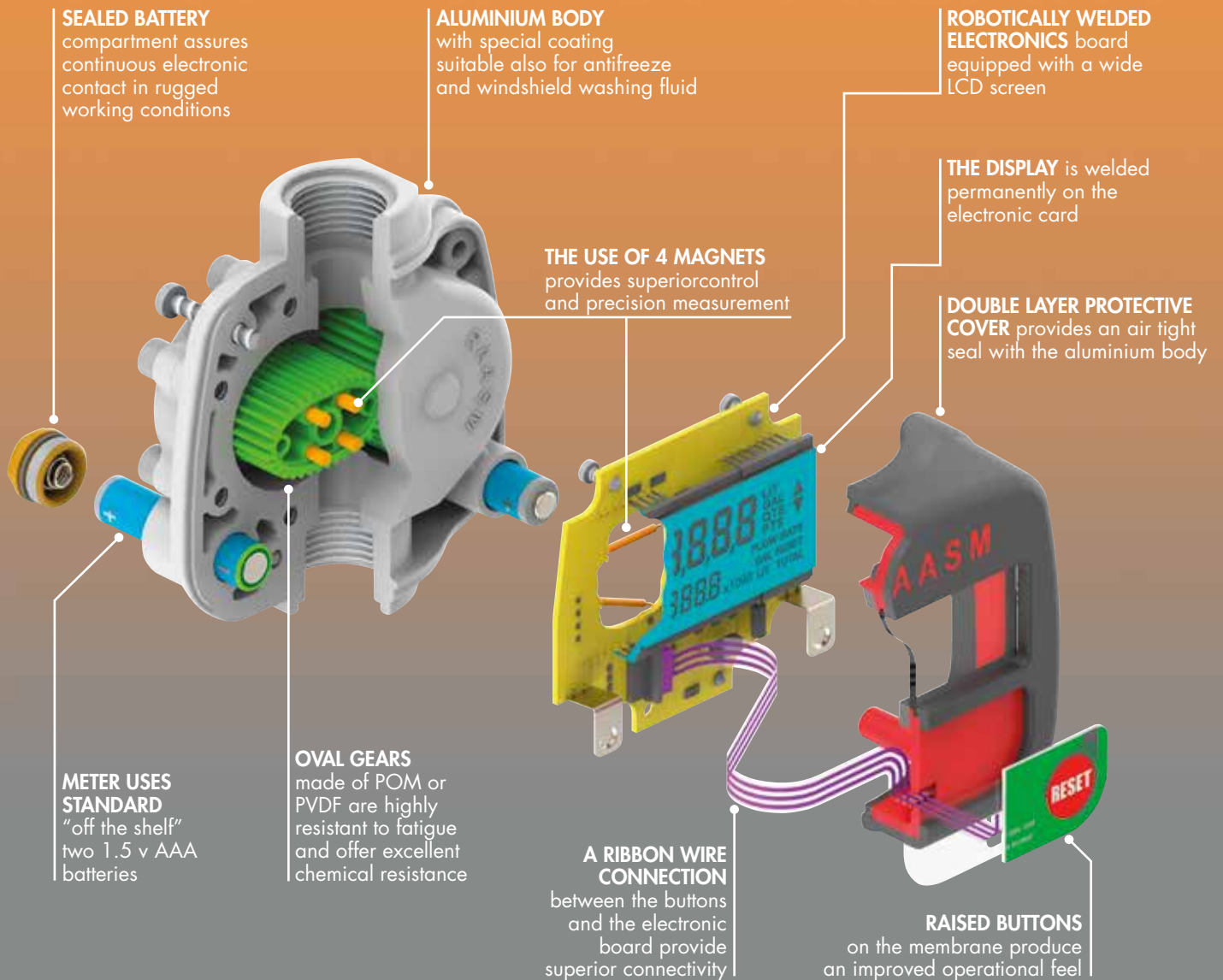


PERFORMANCE

- Precision $\pm 0,3\%$
- Repeatability $\pm 0,2\%$
- Pressure loss $< 0,5$ bars at max flow rate
- Temperature $\Delta T -10 \div +60$ °C ($-14 \div +140$ °F)

The display shows simple and intuitive information to allow easy use.

Technical features



The digital meters, besides gauging the liquid delivered, can show instant flow rates, provide a reset total and allow the setting of different units of measurement.

Digital meters are suitable for a wide variety of fluids, from low to medium to high viscosities, including lubricants, diesel fuel, antifreeze, window wash liquid and other fluids compatible with the material of the meter.

Flow rate **35 l/min**







Flow rate **70 l/min**



Flow rate **100 l/min**



 Not type-approved for public use	FOR OIL AND ALLIED PRODUCTS	FOR OIL AND ALLIED PRODUCTS	FOR OIL AND ALLIED PRODUCTS
P/N	OE37780	OE37781	OE37782
Compatible fluids	Oil and allied products	Oil and allied products	Oil and allied products
Body's material	Aluminium	Aluminium	Aluminium
Gear's material	POM	POM	POM
Inlet	G 1/2" (f)	G 3/4" (f)	G 1" (f) + Flange
Outlet	G 1/2" (f)	G 3/4" (f)	G 1" (f) + Flange
Delivery	1 - 35 l/min	1 - 70 l/min	1 - 100 l/min
Max operating pressure	70 bar	70 bar	70 bar
Burst pressure	200 bar	200 bar	200 bar
Accuracy	± 0,3%	± 0,3%	± 0,3%
Net weight 	0,494 kg	0,618 kg	1,100 kg
Packing 	N° 1 - 0,002 m ³	N° 1 - 0,002 m ³	N° 1 - 0,005 m ³
Gross weight 	0,85 kg	1 kg	1,35 kg
Dimensions (A - B - C)	94 - 92 - 57 mm	94 - 92 - 77 mm	112 - 92 - 98 mm

Meters mounted on line for continuous counting of the transported fluid



Flow rate **90 l/min**



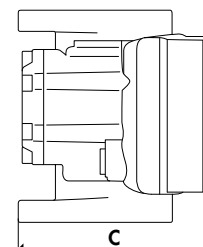
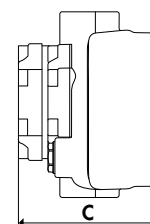
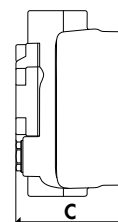
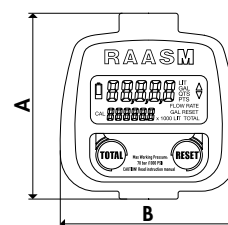
Flow rate **120 l/min**



Flow rate **40 l/min**



Overall dimensions (mm)



FOR DIESEL FUEL

OE33710

Diesel fuel

Aluminium

POM

G 3/4" (f)

G 3/4" (f)

1 - 90 l/min

70 bar

200 bar

± 0,3%

0,618 kg

N° 1 - 0,002 m³

0,83 kg

93 - 92 - 77 mm

FOR DIESEL FUEL

OE33711

Diesel fuel

Aluminium

POM

G 1" (f) + Flangia

G 1" (f) + Flangia

1 - 120 l/min

70 bar

200 bar

± 0,3%

1,912 kg

N° 1 - 0,005 m³

1,35 kg

112 - 92 - 98 mm

**FOR ANTIFREEZE AND
WINDSHIELD WASHING LIQUID**

OE37785

Antifreeze and windshield
washing liquid

Oxidized aluminium

PVDF

G 1/2" (f)

G 1/2" (f)

1 - 40 l/min

70 bar

200 bar

± 0,3%

0,63 kg

N° 1 - 0,002 m³

0,82 kg

94 - 92 - 57 mm



**Meter with oil valve
and nozzle for counting
multiple dispensing**




MID DIGITAL METER

MID-certified digital meter is designed to measure oil and similar products in compliance with current European legislation. It let you view the total amount supplied - which cannot be reset - while the partial supplies can be displayed and saved.

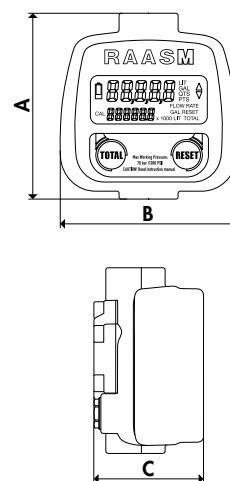
The instantaneous flow rate can be consulted on the display, as well as the number of dispensing operations saved to memory.

It can also be mounted on guns already in use, provided the transparent display p/n 38119 and automatic nozzle p/n 38116 are also used.



	FOR OIL AND ALLIED PRODUCTS
P/N	OE37780M
Compatible fluids	Oil and allied products
Viscosity	90 ÷ 200 mPas
Body's material	Aluminium
Gear's material	POM
Inlet	G 1/2" (f)
Outlet	G 1/2" (f)
Delivery	1 ÷ 10 l/min
Minimum measurable quantity	0,5 l
Max operating pressure	1 : 20 bar
Burst pressure	200 bar
Precision class	0,5
MPE (maximum permissible error)	Max valore tra: 0,01 l (errore minimo) - 0,3% (erogazione > 2 l)
Working temperature	+5 °C ÷ +40 °C
Mechanical environment class	M2
Electromagnetic environment class	E2
Protection degree	IP65
Accuracy	± 0,3%
Net weight 	0,494 kg
Packing 	N° 1 - 0,002 m ³
Gross weight 	0,65 kg
Dimensions (A - B - C)	94 - 92 - 57 mm

Overall dimensions (mm)



FEATURES
REGULATIONS

STANDARDS, GUIDELINES AND OTHER REGULATIONS	OIML R 117-1- Wemec 7.2
MID IMPLEMENTATION DECREE	DECREE 19 May 2016, no. 84
METROLOGICAL MARKING OF DIGITAL METER LABEL	CE MXX 0476
EC TEST CERTIFICATE	MID 94-B-1
CHECKSUM CODE (unique digital meter software identifier)	C3.00



WHAT'S THIS

The new MID-certified digital meter is the mandatory tool **required for commercial transactions** involving direct sale of lubricants for public use.

In compliance with the Measuring Instruments Directive 2014/32/EU, MID MI-005 certification focuses on the continuous, dynamic quantity measurement for liquids other than water.

It is solution for the supply of oil and similar products suitable for every need, ensuring a **high protection rating (IP65)** and save data for 2000 dispensing operations.



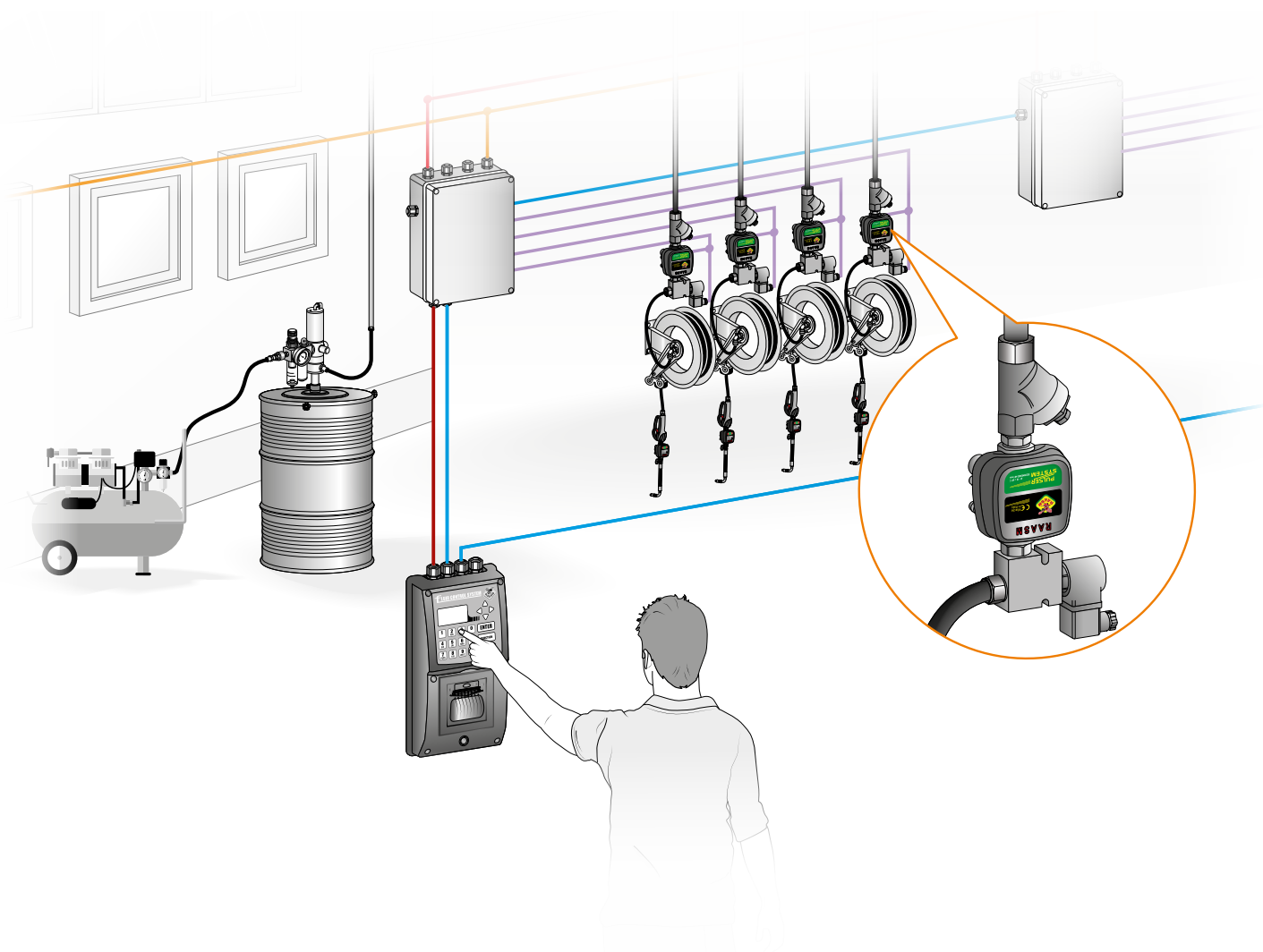
SEALED CLOSING

Lead sealed to guarantee that the instrument cannot be tampered with.



DIGITAL METERS PULSER VERSION







PERFORMANCE

- Precision $\pm 0,3\%$
- Repeatability $\pm 0,2\%$
- Voltage max 48 V DC
- Max amperage 0,5 A
- Temperature $\Delta T -20 \div +70\text{ }^{\circ}\text{C}$ ($-14 \div +158\text{ }^{\circ}\text{F}$)
- Length of the wire 1,5 m
- Kind of signal: clean contact (Reed switch)
- 2 channels (in quadrature)
- not type-approved for public use

Technical features

ALUMINIUM BODY

with special coating suitable also for antifreeze and windshield washing fluid

CABLE

Supplied length of the wire 1,5 m

DOUBLE LAYER PROTECTIVE COVER

provides an air tight seal with the aluminium body

OVAL GEARS

made of POM or PVDF are highly resistant to fatigue and offer excellent chemical resistance

THE USE OF 4 MAGNETS

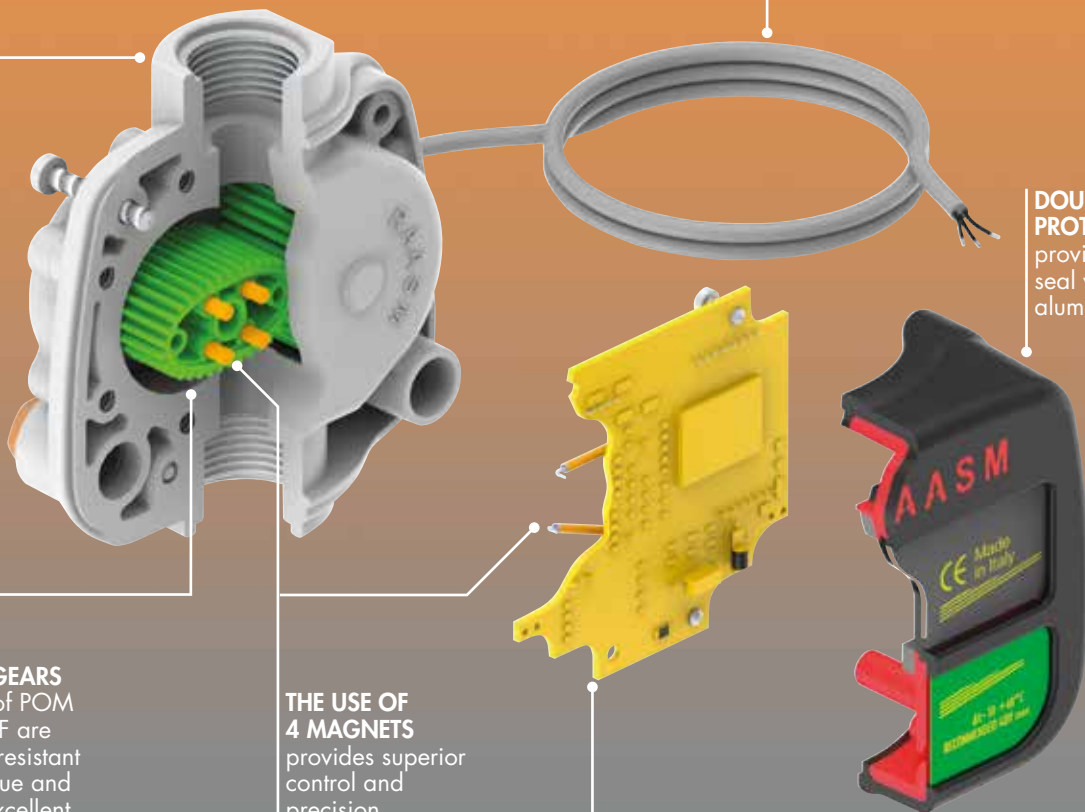
provides superior control and precision measurement

ELECTRONIC CARD

assembled with the protective cover

RIGID PLASTIC LAYER

for best protection of electronic card



DIGITAL METERS PULSER VERSION

The **pulser meter** is used to measure fluids and to transmit data. It is usually installed on centralized systems to control and manage delivery of fluids.

Flow rate **35 l/min**







Flow rate **70 l/min**



Flow rate **100 l/min**



 Not type-approved for public use	FOR OIL AND ALLIED PRODUCTS		
P/N	OE39610	OE39613	OE39615
Compatible fluids	Oil and allied products	Oil and allied products	Oil and allied products
Body's material	Aluminium	Aluminium	Aluminium
Gear's material	POM	POM	POM
Inlet	G 1/2" (f)	G 3/4" (f)	G 1" (f) + Flange
Outlet	G 1/2" (f)	G 3/4" (f)	G 1" (f) + Flange
Delivery	1 - 35 l/min	1 - 70 l/min	1 - 100 l/min
Max operating pressure	70 bar	70 bar	70 bar
Burst pressure	200 bar	200 bar	200 bar
Accuracy	± 0,3%	± 0,3%	± 0,3%
Pulser per liter	842	423	282
Max voltage	48 V DC Max	48 V DC Max	48 V DC Max
Max amperage	0,5 A	0,5 A	0,5 A
Max power	10 W	10 W	10 W
Net weight 	0,55 kg	0,66 kg	1,100 kg
Packing 	N° 1 - 0,002 m ³	N° 1 - 0,002 m ³	N° 1 - 0,003 m ³
Gross weight 	0,65 kg	1 kg	1,75 kg
Dimensions (A - B - C)	94 - 92 - 57 mm	94 - 92 - 77 mm	112 - 92 - 98 mm

Pulser mounted on line for continuous counting of the transported fluid



Flow rate **90 l/min**



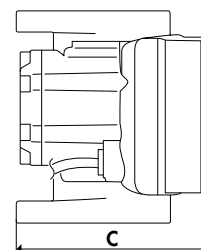
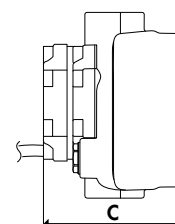
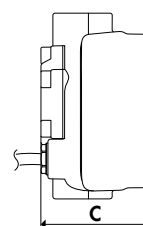
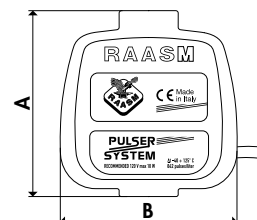
Flow rate **120 l/min**



Flow rate **40 l/min**



Overall dimensions (mm)



FOR DIESEL FUEL

OE39614

Diesel fuel

Aluminium

POM

G 3/4" (f)

G 3/4" (f)

1 - 90 l/min

70 bar

200 bar

± 0,3%

412

48 V DC Max

0,5 A

10 W

0,66 kg

N° 1 - 0,002 m³

1 kg

93 - 92 - 77 mm

FOR DIESEL FUEL

OE39616

Diesel fuel

Aluminium

POM

G 1" (f) + Flange

G 1" (f) + Flange

1 - 120 l/min

70 bar

200 bar

± 0,3%

275

48 V DC Max

0,5 A

10 W

1,200 kg

N° 1 - 0,003 m³

1,40 kg

112 - 92 - 98 mm

**FOR ANTIFREEZE AND
WINDSHIELD WASHING LIQUID**

OE39611

Antifreeze and windshield
washing liquid

Oxidized aluminium

PVDF

G 1/2" (f)

G 1/2" (f)

1 - 40 l/min

70 bar

200 bar

± 0,3%

806

48 V DC Max

0,5 A

10 W

0,55 kg

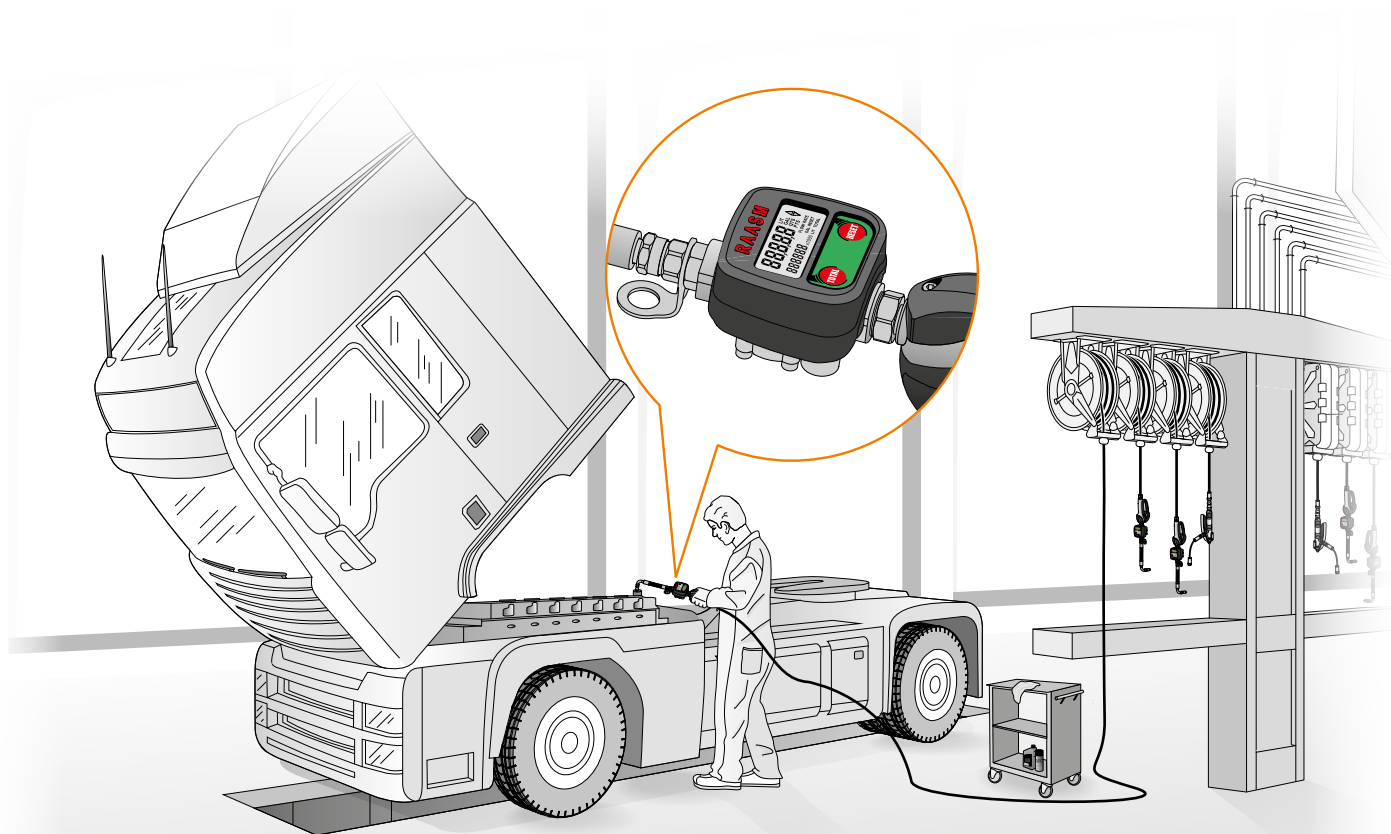
N° 1 - 0,002 m³

0,65 kg

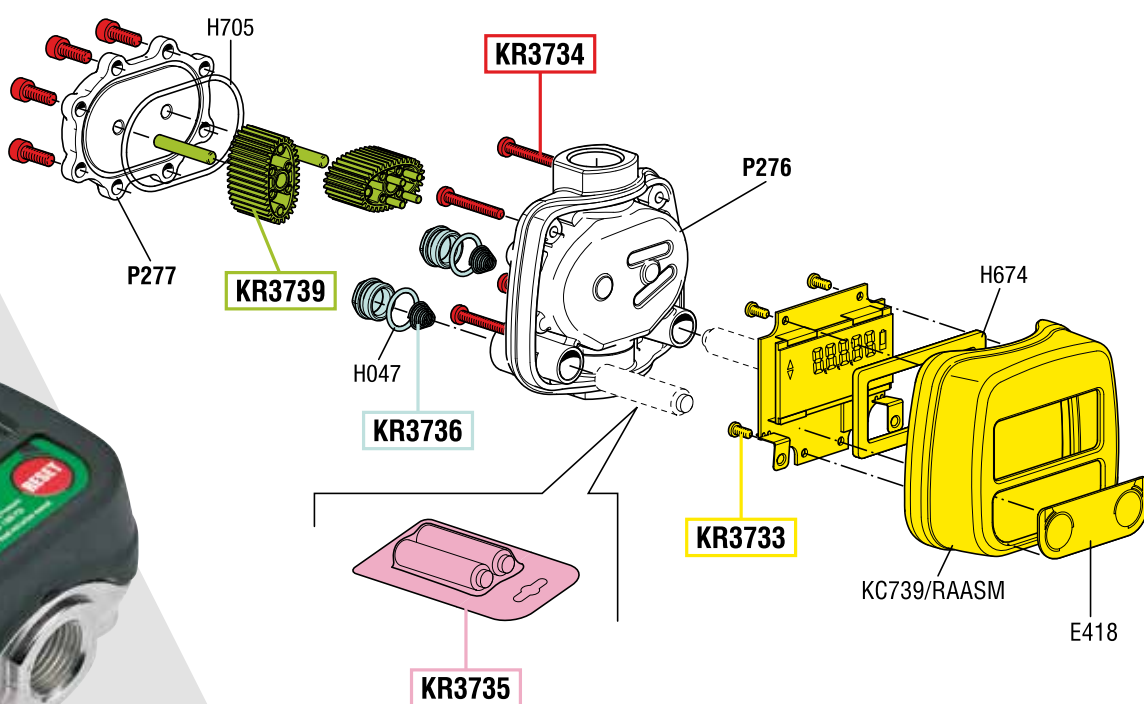
94 - 92 - 57 mm



**Single valve pulser
meter connected with
solenoid valve to be
used with FCS system**



Safe choices
with original spare parts



... for a fast and efficient
spare parts service

info@ecodora.com
www.ecodora.com

GENERAL SALES CONDITIONS

The following general sales conditions regulate the sale of goods and services by the company ECODORA S.r.l. for customers residing outside the territory of the Italian State.

Art. 1 GOODS DELIVERY TERMS

The goods are delivered ex works ECODORA S.r.l. The subsequent transport/shipment must occur by, in the name and at the expense of the purchasing customer, even by means of a carrier appointed and designated by the same. All risks arising from loading, subsequent custody and transport are borne entirely by the purchasing customer.

Art. 2 MINIMUM ORDERS

Each order cannot be for less than € 1,500.00, net of fees, taxes, customs duties, discounts and rebates and any other charges not included in the price of the goods. If, at the option of ECODORA S.r.l., orders for lower amounts are accepted, an extra charge of € 155,00 shall be applied for order management administrative expenses.

Art. 3 ACCESSORIES

All the accessories given in the price list (plugs, oil bar taps, oil guns, grease guns, probes, protection caps, clutches, swivelling supports, etc.) are supplied exclusively for fitting to or combining with the items ECODORA S.r.l. produces

Art. 4 COMPLAINTS

Any defects immediately noticed after a brief inspection of the goods (damage, shortages or different product from that ordered) must be notified in writing to our company within 8 (eight) days of receipt the goods. Any defects in the product noticeable only during its use must be notified in writing to ECODORA S.r.l. within 8 (eight) days of being detected. Any returns of goods must be authorized in advance by ECODORA S.r.l. and freight charges are at the customer's expenses.

Art. 5 DELIVERY TIMES/TERMS

Delivery times and dates are only approximate and are subject to change. Any delays in delivery do not entitle the customer to cancel the order or claim compensation for damages caused by delay of delivery. Delivery times for urgent orders must be agreed directly with ECODORA S.r.l. ECODORA S.r.l. has the right not to carry out the order and/or totally or partially carry it out, without this giving rise to reimbursement or claims for compensation for damage.

Art. 6 PACKS AND PACKAGING

Packaging costs are included in the price, except for special packing, which shall be charged at cost.

Art. 7 PRICES

The current Price list cancels and replaces the previous price list. In the event of changes to our price list and/or individual items, the goods shall be forwarded at the price in force on the day of the order confirmation. The price list and/or the prices of individual items can be changed even without notice, according to the changes in market conditions or technical innovations/modifications made to the product. The prices are understood to be ex works ECODORA S.r.l.

Art. 8 PAYMENTS

Payments must be made exclusively to ECODORA S.r.l. at the agreed conditions. Under no circumstances will deductions or roundings be accepted. In case of late payment with respect to the agreed conditions, ECODORA S.r.l. reserves the right to charge interest at the current rate, effective from the day after that agreed for payment, plus any additional expenses. Discounts conditional on the payment term and already credited shall be recharged.

Art. 9 WARRANTY

ECODORA S.r.l. provides each product with the communication of particular instructions for the installation, use and maintenance requirements and the need to carry out possible checks on the product. All the technical information and data mentioned in the catalogue and in the price-list in force are not binding and can be changed without prior notice for the purpose of improving the quality of the products. All products manufactured by ECODORA S.r.l. are guaranteed for a period of 5 (five) years from the date of delivery to the first user. The user must keep and show the sales invoice - or an equivalent document - together with the item's serial number in order to make a claim under the ECODORA S.r.l. guarantee. The 5 (five) year guarantee does not apply to components which are subject to normal wear and tear (such as gaskets, diaphragms, O-rings, hoses, etc.), electronic components and items that are sold but not manufactured by ECODORA S.r.l. (marked with a red asterisk in the current product catalogue) which are guaranteed for 1 (one) year from the date of delivery to the first user.

1 (one) year warranty is valid also for the following products:

- digital litre counters and FCS system;
- cable reels;
- electric, pneumatic or hydraulic motor supplied with our industrial hose reels s. 600 and 700.

Incorrect installation, use or maintenance of the product shall void the warranty. Upon written notice, the articles must be returned free to our Factory for checking and acceptance. In any case, the guarantee expires in the 10th year from the date of manufacture (indicated by the serial number), if the stated expiry takes place before the expiration terms indicated above (1 or 5 years from delivery to the first user).

Art. 10 RESPONSIBILITY

ECODORA S.r.l. is exempt from any responsibility and liability for accidents that may occur to persons and property, as a result of or during the use of the equipment, due to or depending on the same whenever the products have been damaged during transport, tampered with or modified, or improperly used, or stored, installed, protected and preserved without complying with the instructions of ECODORA S.r.l. as given in the installation, use and maintenance instruction manuals for each product. ECODORA S.r.l. is liable for the value for the supplied product and cannot be held responsible in any way for other possible costs or additional costs that the customer may bear.

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FOR FOREIGN MARKETS

Art. 11 CONFIDENTIALITY

Information not in the public domain that is exchanged in the execution of the contract is subject to the obligation of confidentiality, secrecy and security; said information is covered as an industrial secret and is of a confidential and reserved nature and may not be disseminated to third parties; its use is permitted exclusively and strictly to execute the supply contract.

Art. 12 INTELLECTUAL PROPERTY RIGHTS

The ECODORA trademark, and likewise the name ECODORA, ECODORA S.r.l., the logo and the other distinctive signs are internationally registered trademarks, and ECODORA S.r.l. does not authorise their use and application under any circumstances. Without prior written consent from ECODORA S.r.l., the content of catalogues, price lists, instruction manuals and similar, including content on the website may not be reproduced, either entirely or partially, nor may it be transferred by electronic or traditional means, nor may it be modified or utilised by any means and for any purpose. All rights are held by ECODORA S.r.l. The customer acknowledges that ECODORA S.r.l. holds exclusive ownership of all the parts, images, photographs and signs not in common usage, the content in the catalogues, price lists, instruction manuals and similar and/or present on the website www.ecodora.com and/or other channels and/or social networks used by ECODORA S.r.l. for their informational and marketing campaigns pursuant to Copyright Law and the Industrial Property Code.

Art. 13 INFORMATION ON THE PROCESSING OF DATA PURSUANT TO ITALIAN LEGISLATIVE DECREE 196/2003

In accordance with article 13 of Italian Legislative Decree 196/2003 - Personal Data Protection Code - you are hereby advised that the processing of the personal data, provided with the purchase of goods or services and/or the supply of goods or services is solely for the purposes of carrying out the contract-based obligations and to comply with the specific requests from customers/ suppliers, as well as adhering to legislative obligations, in particular accounting and tax obligations or to respect orders issued by public authorities or to exercise a right in court.

The data shall also be used for commercial statistics for corporate use and to obtain commercial information on our products and services if expressly authorised by the applicant. The processing of data shall be done using hard-copy and computerised procedures, in the manner and within the limits necessary to achieve the aforementioned purposes. Data may be communicated and processed by other companies in the Group for the same specified purposes, and may be made known to employees of our company, consultants and other suppliers, always and exclusively within the limits of the aforementioned purposes.

The provision of data is mandatory for the correct execution of the contract and pre-contract based obligations, and failure to do so could result in it being impossible to fully comply with contractual obligations, and make it impossible to provide updates on the new products and services offered by our company.

Data shall be processed for the duration of the contract relationship in place and subsequently to fulfil any legal formalities.

Art. 14 RIGHTS OF DATA SUBJECTS

The information is aimed at defining the limits and methods for the processing of data, based on which individual customers and/or suppliers may freely authorise the collection and subsequent use of data. Data subjects are entitled to the rights pursuant to article 7 of the aforementioned Code and in particular, the right to access their personal data, ask for the amendment, update and cancellation thereof, if incomplete, incorrect or collected in violation of the law, and may object to the processing for legitimate reasons, addressing requests in this regard to ECODORA S.r.l.

Pursuant to the same article the data subject also has the right to request the complete and updated list of the Data Supervisors, and to ask for the cancellation, transformation into anonymous form or blocking of data processed in violation of the law, and to oppose in any case, for legitimate reasons, the processing thereof. To exercise these rights, and in the case of problems or any requests for clarification regarding what has been explained herein, kindly address these to the following email address: info@ecodora.com.

Art. 15 DATA CONTROLLER

The Data Controller is ECODORA S.r.l. with registered office at Via Marangoni 33, Cassola (VI) – Italy, and this is where the data processing shall take place.

Art. 16 COMPETENT LAW COURT

Any disputes shall be settled by the Law Court of Vicenza, Italy.



The manufacturer declines any responsibility for possible inaccuracies contained in this catalogue, due to printing or transcription errors.

The manufacturer reserves the right to make any changes or improvements of a functional, technical or aesthetic nature without prior notice.



A series of horizontal lines for writing notes.



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Company with an ISO
9001:2015 certified
quality management system



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