

Meter DIGITAL and PULSER



**FOR ANTIFREEZE
AND WINDSHIELD
WASHING LIQUID**
Flow rate **40 l/min**



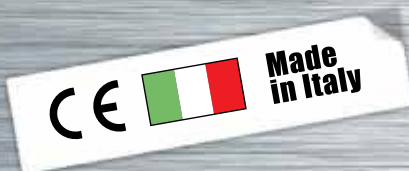
FOR DIESEL FUEL
Flow rate **90/120 l/min**



**FOR OIL AND
ALLIED PRODUCTS**
Flow rate **35/70/100 l/min**



**ADVANCED FLUID
MANAGEMENT SOLUTIONS**



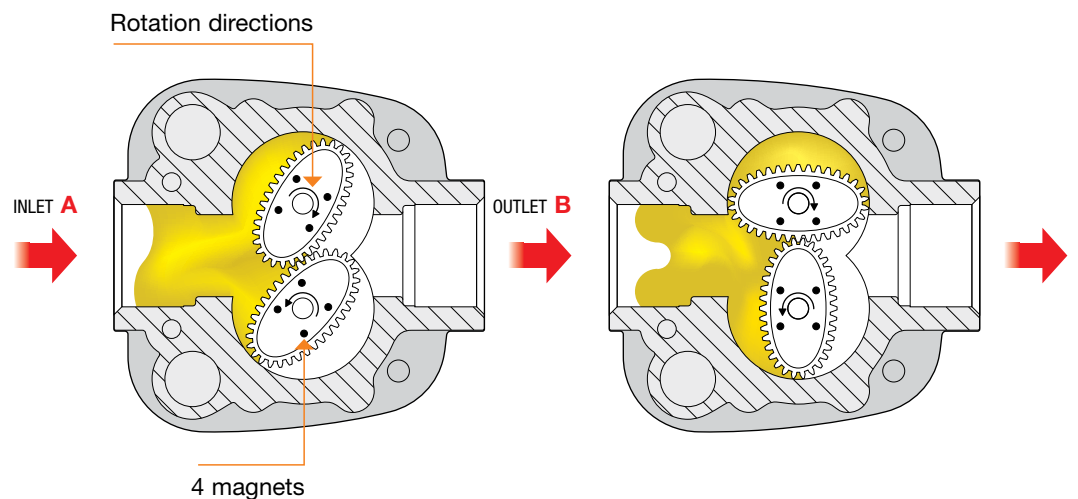


METER DIGITAL AND PULSER

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



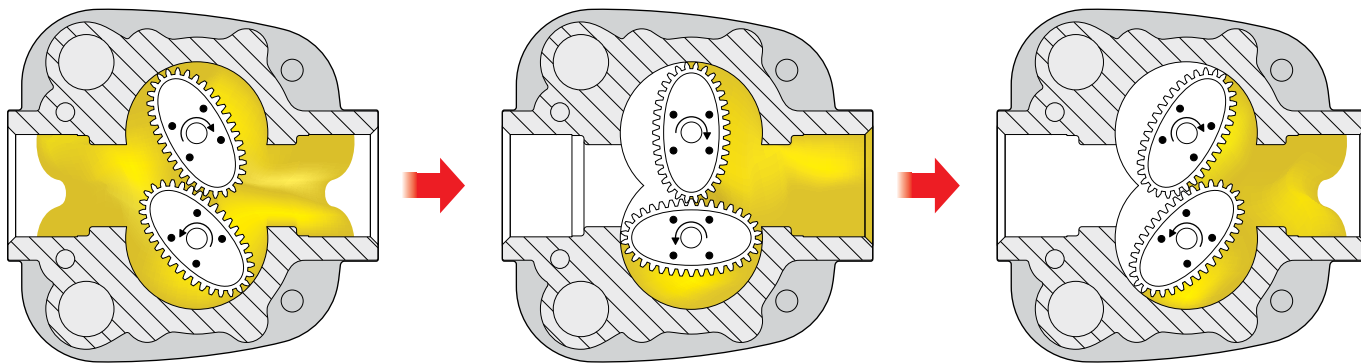
MEASURING PRINCIPLE



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.



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.

RAASM

intends to “offer the best” through a continuous improvement in terms of performance, functionality and product’s reliability.



Meter mounted on pump outlet



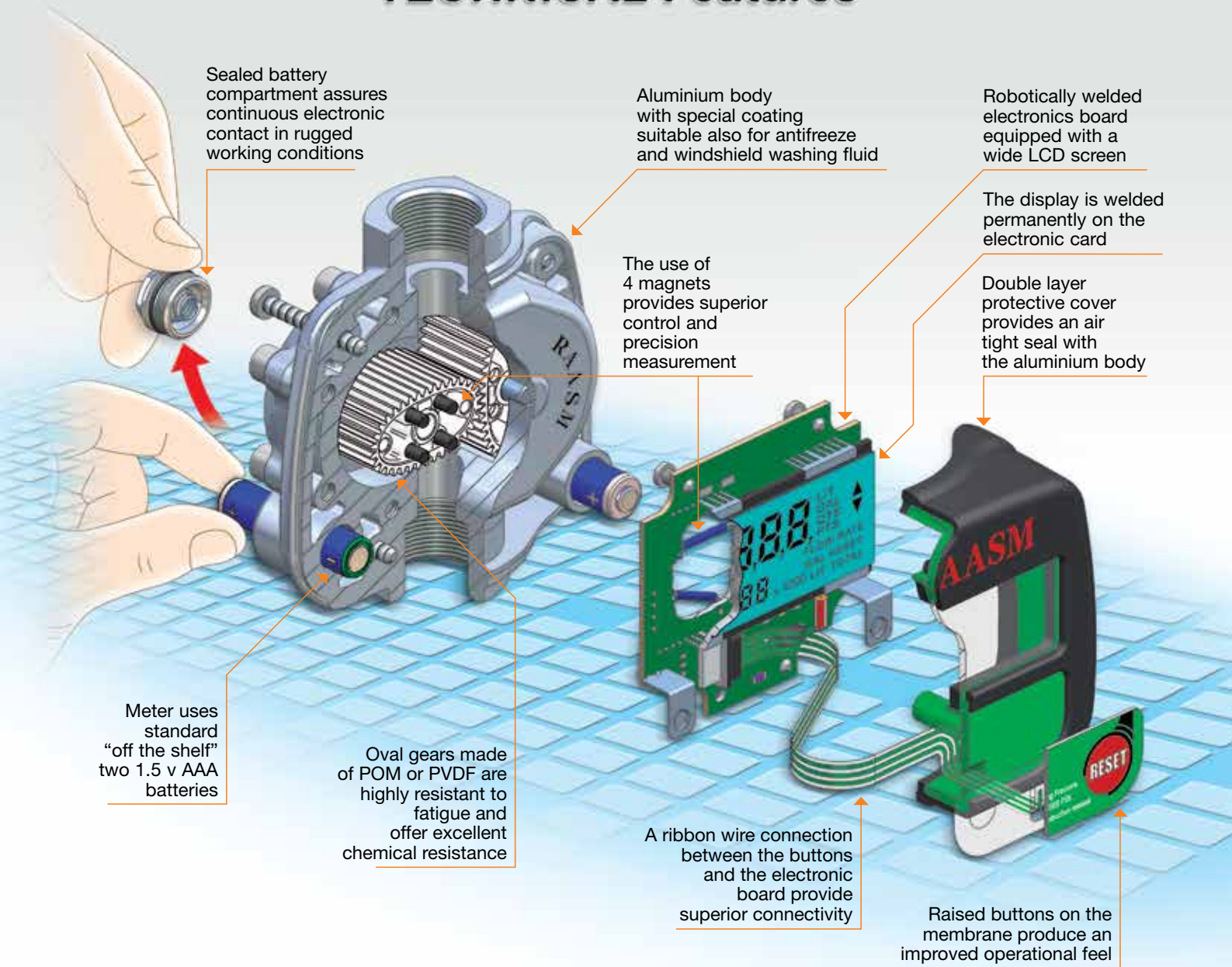
The new electronic meter is the result of intense research and testing, combining modern manufacturing technology with a simple and intuitive design.

All the components are produced in Italy, including the electronic board.

Suitable for use in indoor and outdoor environments, the aluminium body is rugged and resists contamination.

The sealed electronic board provides continuous reliability.

TECHNICAL Features



PERFORMANCE

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

The display shows simple and intuitive information to allow easy use



DIGITAL Meter

Flow rate **35 l/min**

Flow rate **70 l/min**




Flow rate **100 l/min**


RAASM's 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.

RAASM's 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.



Not type-approved for public use

	FOR OIL AND ALLIED PRODUCTS	FOR OIL AND ALLIED PRODUCTS	FOR OIL AND ALLIED PRODUCTS
Article	37780	37781	37782
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	F 1/2" BSP	F 3/4" BSP	F 1" + Flange
Outlet	F 1/2" BSP	F 3/4" BSP	F 1" + Flange
Delivery	1 - 35 l/min	1 - 70 l/min	2 - 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 	0,485 kg	0,790 kg	1,100 kg
Packing 	N°1 - m ³ 0,0015	N°1 - m ³ 0,0018	N°1 - m ³ 0,005
Gross weight 	0,85 kg	1 kg	1,35 kg
Dimensions (A - B - C)	94 - 90 - 55 mm	94 - 91 - 77 mm	109 - 91 - 99 mm

Meters mounted on line 

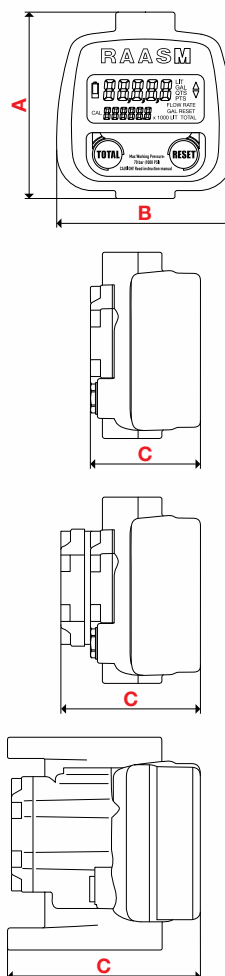


Flow rate **90 l/min**

Flow rate **120 l/min**

Flow rate **40 l/min**

DIMENSIONS



FOR DIESEL FUEL	FOR DIESEL FUEL	FOR ANTIFREEZE AND WINDSHIELD WASHING LIQUID
33710	33711	37785
Diesel fuel	Diesel fuel	Antifreeze and windshield washing liquid
Aluminium	Aluminium	Aluminium Zancofuso®
POM	POM	PVDF
F 3/4" BSP	F 1" + Flange	F 1/2" BSP
F 3/4" BSP	F 1" + Flange	F 1/2" BSP
1 - 90 l/min	2 - 120 l/min	1 - 40 l/min
70 bar	70 bar	70 bar
200 bar	200 bar	200 bar
± 0,3 %	± 0,3 %	± 0,5 %
0,790 kg	1,100 kg	0,485 kg
N°1 - m³ 0,0018	N°1 - m³ 0,005	N°1 - m³ 0,0015
1 kg	1,35 kg	0,85 kg
94 - 91 - 77 mm	109 - 91 - 99 mm	94 - 90 - 55 mm

Meter with oil valve and nozzle



R A A S M

PULSER METER



Industrial meter assembly department organised to make a product ready for the final testing where meters are checked one by one.

TECHNICAL Features

Aluminium body with special coating suitable also for antifreeze and windshield washing fluid

Electronic card assembled with the protective cover

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

Rigid plastic layer for best protection of electronic card

PERFORMANCE

- Precision $\pm 0,3 \%$
- Repeatability $\pm 0,2 \%$
- Voltage max 120 V 10W max
- Max amperage 0,5 A max
- Temperature $\Delta T -20^{\circ} +70^{\circ}C (-14^{\circ} +158^{\circ} F)$
- Length of the wire 1,5 m
- Kind of signal: clean contact (Reed switch)
- 2 channels (in quadrature)





PULSER Meter

Flow rate **35 l/min**

Flow rate **70 l/min**




Flow rate **100 l/min**


The pulser meter

is used to measure fluids and to transmit data. It is usually installed on centralized lubrication system to control and manage delivery of fluids.



Not type-approved for public use

	FOR OIL AND ALLIED PRODUCTS	FOR OIL AND ALLIED PRODUCTS	FOR OIL AND ALLIED PRODUCTS
Article	39610	39613	39615
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	F 1/2" BSP	F 3/4" BSP	F 1" + Flange
Outlet	F 1/2" BSP	F 3/4" BSP	F 1" + Flange
Delivery	1 - 35 l/min	1 - 70 l/min	2 - 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	120V (200 Vdc Max)	120V (200 Vdc Max)	120V (200 Vdc Max)
Max amperage	0,5 A	0,5 A	0,5 A
Max power	10 W	10 W	10 W
Net weight 	0,485 kg	0,790 kg	1,100 kg
Packing 	N°1 - m³ 0,0015	N°1 - m³ 0,0018	N°1 - m³ 0,005
Gross weight 	0,85 kg	1 kg	1,35 kg
Dimensions (A - B - C)	94 - 90 - 55 mm	94 - 91 - 77 mm	109 - 91 - 99 mm

Pulser mounted on line 

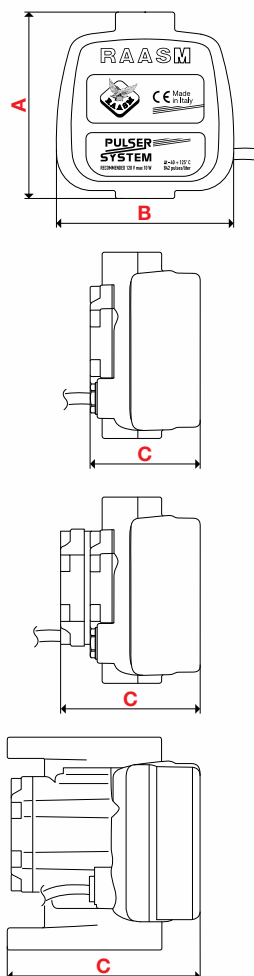


Flow rate **90 l/min**

Flow rate **120 l/min**

Flow rate **40 l/min**

DIMENSIONS



FOR DIESEL FUEL	FOR DIESEL FUEL	FOR ANTIFREEZE AND WINDSHIELD WASHING LIQUID
39614	39616	39611
Diesel fuel	Diesel fuel	Antifreeze and windshield washing liquid
Aluminium	Aluminium	Aluminium Zancofuso®
POM	POM	PVDF
F 3/4" BSP	F 1" + Flange	F 1/2" BSP
F 3/4" BSP	F 1" + Flange	F 1/2" BSP
1 - 90 l/min	2 - 120 l/min	1 - 40 l/min
70 bar	70 bar	70 bar
200 bar	200 bar	200 bar
± 0,3 %	± 0,3 %	± 0,5 %
412	275	806
120V (200 Vdc Max)	120V (200 Vdc Max)	120V (200 Vdc Max)
0,5 A	0,5 A	0,5 A
10 W	10 W	10 W
0,790 kg	1,100 kg	0,485 kg
N°1 - m³ 0,0018	N°1 - m³ 0,005	N°1 - m³ 0,0015
1 kg	1,35 kg	0,85 kg
94 - 91 - 77 mm	109 - 91 - 99 mm	94 - 90 - 55 mm



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



Remote display for pulse meter



THREE WORDS TO DESCRIBE RAASM

■ Technology

The starting point for the entire production cycle is the research and development of cutting-edge new solutions which lead to the development of **high quality products, fully produced in Italy.**



■ Quality

The quality of our product manufacturing has always been our absolute priority. To reach this goal rigorous testing accompanies every phase of the manufacturing process.



■ Functionality

RAASM offers the most complete range of lubrication products suited to many sectors. Our aim is to always be available to provide solutions to our customers.



Authorized distributor



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