PISTOLAS CON CUENTALITROS CERTIFICADO MID





ADVANCED FLUID MANAGEMENT SOLUTIONS







DESIGN IS AN

Aut







Certification MID MI-005

Compliant with European Directive 2014/32/EU



What's this



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

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





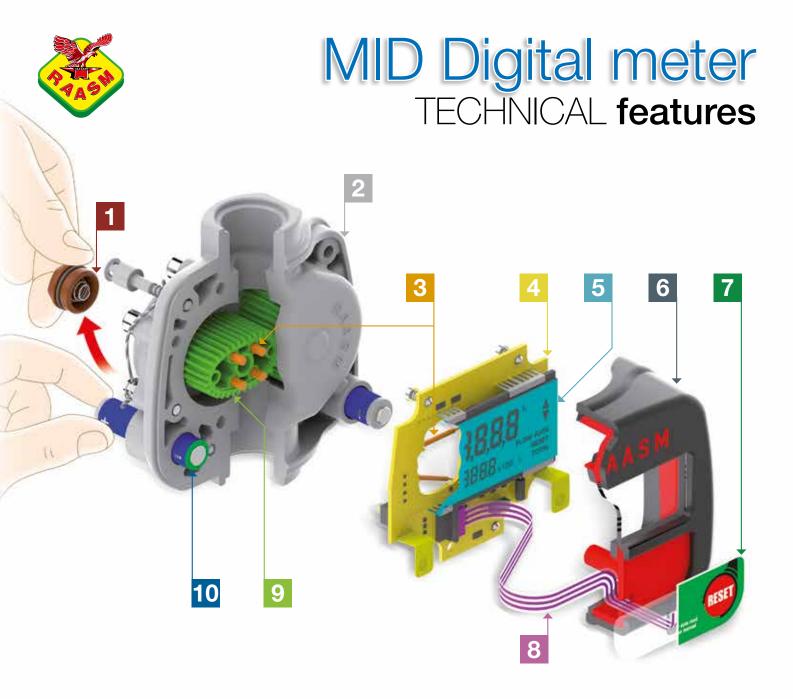
How does it work?



All RAASM digital meters are calibrated 10%

Calibration is performed using only sophisticated equipment designed in-house by our R&D department. The units are sealed by applying a stainless steel wire on the screws closing the meter body.

The certified minimum that can be dispensed is half a litre of oil; the total dispensed cannot be reset, however partial dispensing - up to 2000 entries can be saved with date and time - are overwritten so that the last 2000 recordings are always available. When the digital meter is delivered, alone or mounted on a gun, we provide a detailed report containing the data for all calibration tests performed, **plus the original RAASM certification.**



- SEALED BATTERY compartment assures continuous electronic contact in rugged working conditions.
- 2 ALUMINIUM BODY designed with a compact, shock-resistant structure.
- THE USE OF 4 MAGNETS provides superior control and precision measurement.
- 4. ELECTRONIC CARD ASSEMBLED with protective cover fitted with large LCD screen.
- THE DISPLAY is welded permanently on the electronic card.

- DOUBLE LAYER PROTECTIVE COVER provides an air tight seal with the aluminium body.
- 7 RAISED BUTTONS ON THE MEMBRANE produce an improved operational feel.
- A RIBBON WIRE CONNECTION BETWEEN THE BUTTONS and the electronic board provide superior connectivity.
- 9 OVAL GEARS MADE OF POM suitable for dispensing oils and similar products.
- 2 ALKALINE BATTERIES standard 1.5 V AAA

DISPLAY specifications



The display provides simple, user-friendly indications to make use easier.

Battery low level indicator. When it goes on, replace the batteries immediately.

5 digit resettable totalizer.

Records total, instantaneous flow rate and number of dispensing operations saved (6-digit).

Total may be multiplied by x10 - x100.



Unit of measure for partial registration (litres).

Displays instantaneous "FLOW RATE".

Indicates the "TOTAL" or "RESET TOTAL".

Unit of measure for partial registration (litres).

T E C H N I C A L PERFORMANCE

MPE (maximum permissible error)

Max. value between: 0,01 l (minimum error) 0,3% (supply > 2 l)

Repeatibility 0,2%

Pressure loss < 0,5 bars at max flow rate

Temperature $\Delta T + 5 \,^{\circ}C \div + 40 \,^{\circ}C (+41 \,^{\circ}F \div +104 \,^{\circ}F)$

strength points



- 2000 permanent operations can be saved to memory and viewed on the instrument at any time.
- MPE (maximun permissible error) 0,01 I or the 0.3% when dispensing more than 2 litres, also thanks to a double pair of magnets which improves measurement precision.

SEALED closing



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



- Comes standard with a device able to maintain the date and time while the battery is being changed.
- For each meter, a detailed calibration certificate is provided containing the data from the tests performed.



MID Digital meter For oil and allied products



RAASM 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

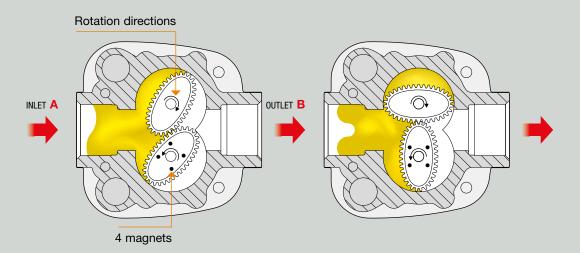
mounted on guns already in use, provided the transparent display p/n 38119 and automatic nozzle p/n 38116 are also used.



Article	4259
Compatible fluids	Oil and allied products
Viscosity	90 ÷ 200 mPas
Body's material	Aluminum
Gear's material	POM
Inlet/Outlet	G 1/2" (f) / G 1/2" (f)
Delivery	1 ÷ 10 l/min
Minimum measurable quantity	0,5
Max operating pressure	1 : 20 bar
Burst pressure	200 bar
Precision class	0,5
MPE (maximum permissible error)	Max. value between: 0,01 l (minimum error) - 0,3% (supply > 2 l)
Working temperature	+5 °C ÷ +40 °C
Mechanical environment class	M2
Electromagnetic environment class	E2
Protection degree	IP65

Measuring principle

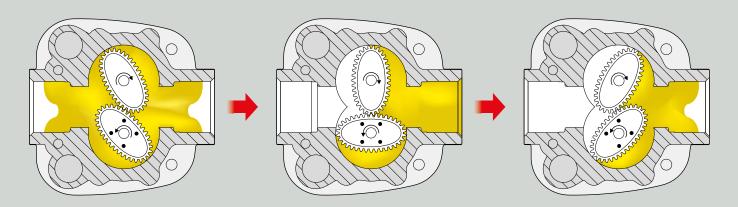
When the fluid enter in the oval gear chamber through the **inlet "A"**, the gears start to rotate. The gears start to rotate because of the pressure of the fluid which comes out from the **outlet "B"**. Each rotation corresponds to a determinate quantity of fluid.





Correct dimensional tollerances 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.





inlet filter



 supplied on the entire protect range, guaranteeing cleaning of dispensed liquid while maintaining gun performance.



Coloured caps supplied for all the range.



PERFORMANCE

Series	1/2" 30 TP
Flow rate	10 l/min
Max pressure	60 bar
Inlet union	G 1/2" (f)
Seals	NBR

- DRIP-CATCHER NOZZLE
 Only ø 16 mm automatic drip-catcher nozzles are installed to guarantee maximum precision dispensing.
- TERMINAL

 Versions with flexible or rigid terminal are available.
- TRANSPARENT SIGHT GLASS
 Each gun has a transparent sight glass to check that there are no air bubbles during oil throughflow.

- 4 GRIP
 Grip in aluminium alloy or technopolymer.
- 5 LEVER LOCKING BUTTON
 Depending on your needs, models are available both with and without the lever locking button.
- All guns come standard with a hook so they can be stored quickly and easily.

TECHNICAL FEATURES

RAASM MID-certified guns are designed to measure oil and similar products in compliance with current European legislation. They accommodate the 37780M meter and confirm all technical characteristics. The range of guns available can meet every need and includes flexible or rigid terminals, handles in aluminium or technopolymer, lever locking buttons and automatic drip-catcher nozzles.



TECHNICAL

1/2" 40 AL	1/2" 40 AP
10 l/min	10 l/min
70 bar	70 bar
G 1/2" (f)	G 1/2" (f)
Viton [®]	Viton®

strength points



- All accessory components required by law are available for implementation on the gun you already have so it can be used for MID-MI005 certified delivery.
- IP65 protection rating so the meter can be used in environments that are extremely dusty and subject to jets of water.
- Precision, ergonomic design featuring compact, light-weight structure that ensures an easy, manoeuvrable grip.



Dispensing guns with flexible terminalOil and allied products





Series 1/2" 40 AL P/N 4407 with digital meter p/n 4259
Grip: in aluminum alloy
Drip-catcher nozzle: automatic ø 16 mmTerminal: flexible black synthetic rubber
Hook for storing the gun Transparent sight glass to check the oil throughflow
Coloured caps supplied for all the range Inlet swivel joint G 1/2" (f)



Grip: in aluminum alloy	Terminal: flexible black synthetic rubber
Drip-catcher nozzle: automatic ø 16 mm	Transparent sight glass to check the oil throughflow
Hook for storing the gun	Inlet swivel joint G 1/2" (f)
Coloured caps supplied for all the range	Lever locking button



Dispensing guns with rigid terminalOil and allied products





Grip: technopolymer	Terminal: rigid terminal in aluminum alloy
Drip-catcher nozzle: automatic ø 16 mm	Transparent sight glass to check the oil throughflow
Hook for storing the gun	Inlet swivel joint G 1/2" (f)

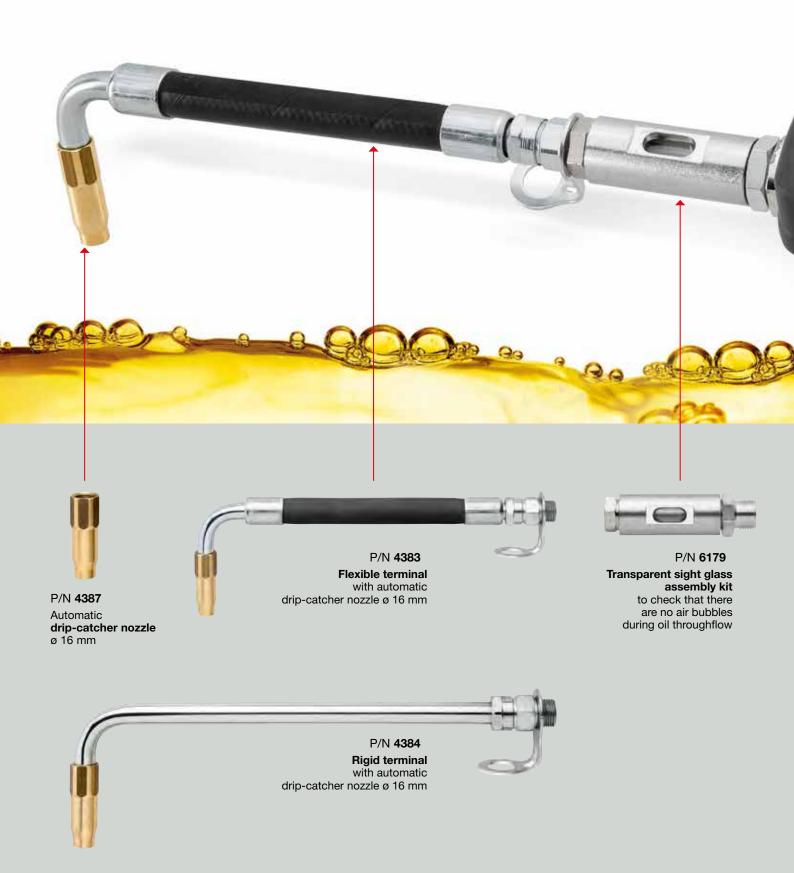




Grip: in aluminum alloy	Terminal: rigid terminal in aluminum alloy
Drip-catcher nozzle: automatic ø 16 mm	Transparent sight glass to check the oil throughflow
Hook for storing the gun	Inlet swivel joint G 1/2" (f)
Coloured caps supplied for all the range	Lever locking button

Customise

your gun



All components of the new RAASM MID digital meter and guns can be purchased separately. These units can be used to take a standard gun, already in use and turn it into a gun certified for commercial transactions for public use.

The parts indispensable for this purpose are the **4259** digital meter, the automatic drip-catcher nozzle **4387** and the oil sight glass **6179**.





TECNOLOGÍA

La investigación y el desarrollo de nuevas soluciones que acabarán convirtiéndose en productos de vanguardia de la más alta calidad totalmente fabricados en Italia, es el principal punto de partida de todo el ciclo de producción



Desde siempre, la calidad es una preocupación básica en la creación de productos **RAASM**. Para obtenerla es indispensable la ejecución de un sinfín de pruebas altamente exigentes y rigurosas





FUNCIONABILIDAD

RAASM dispone de la más completa gama de productos para lubricación y distribución de fluidos. El objetivo es el de dar siempre una respuesta satisfactoria a las demandas de nuestros clientes y cubrir sus exigencias







Company with an ISO 9001:2015 certified quality management system

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