

PIUSI



**THE TOP PERFORMING OIL MONITORING
SYSTEM FOR YOUR GARAGE**

CENTRALIZED LUBRICATION: STEP INTO THE 2.0 ERA OF OIL MONITORING SYSTEM!

Do you want to improve the efficiency of your garage?
Do you want to maintain control over all the consumptions of lubricants, diesel, or AdBlue®?

The solution for you is MCO 2.0!

MCO 2.0 is a centralized fluid monitoring system that allows you to control, monitor, dispense and measure all the lubricants and fuels that are dispensed in the garage during a normal working day.

All this from a single equipment. All in real time.

The system is **designed for all workshops that need a centralized management of all fluids.**

This allows to create a smoother and more efficient workflow within the garage.

With the MCO 2.0 system all workshops can always:

- ▷ Know **WHO** has dispensed the fluid: each operator has a unique code;
- ▷ Know **HOW MUCH** fluid has been dispensed with precision up to the last drop;
- ▷ Keep track of **ALL TRANSACTIONS** to ensure no portion of the completed work was forgotten or missing in the final billing to customers;
- ▷ Avoid **HUMAN ERRORS** in fluid dispensing.

Are you ready to enhance the way you manage your garage?

Step into the 2.0 era!



MCO 2.0: MANAGE YOUR WORKSHOP IN A CLICK

1

ORGANIZE

Manage your garage from your desktop with a unique software.

2

WORK

Control the list of pending jobs and organize the whole works list.

3

MONITOR

Keep the progress of the garage constantly under control.

4

CHECK

Have always a complete overview from the PC.



THE OIL MONITORING SYSTEM FOR ALL WORKSHOPS

EXAMPLE A

WORKSHOP SPECS:

- 2 BAYS
- 2 REELS
- 1 TYPE OF OIL
- 1 TANK

COMPONENTS:

- 1 SOFTWARE MCO 2.0
- 1 CONTRO UNIT 2.0*
- 1 CONTROL UNIT 2.0 MOBILE*
- 1 PIUSI DONGLE 2.0*

- 1 TICKET PRINTER*
- 2 GPV 2.0
- 2 EASY VIEW 2.0*
- 1 OCIO 2.0*

*optional



Opzionale

The MCO 2.0 system **network's fluid dispensing flows** to allow optimal monitoring, while simultaneously offering a comprehensive set of tools and opportunities for the **management and organization of each work process.**

A fully-fledged enterprise resource planning system. Flexible, simple and intuitive. Developed on the basis of your demands, by people involved daily in garage activities seeking practical solutions.

▷ Oil ▷ Windscreen▷ AdBlue® ▷ Diesel ▷ Any

EXAMPLE B

WORKSHOP SPECS:

- 4 BAYS
- 4 REELS
- 2 TYPES OF OIL
- 2 TANKS

COMPONENTS:

- 1 SOFTWARE MCO 2.0
- 3 CONTROL UNIT*
- 1 CONTROL UNIT 2.0 MOBILE*
- 2 PIUSI DONGLE 2.0*

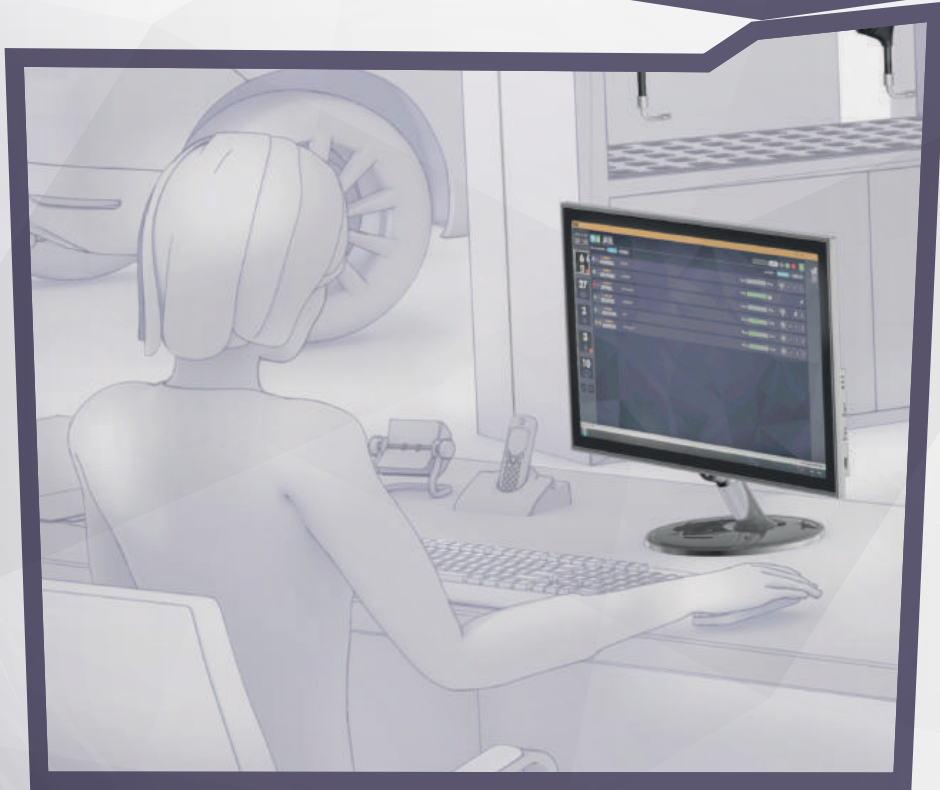
- 1 TICKET PRINTER*
- 4 GPV 2.0
- 4 EASY VIEW 2.0*
- 2 OCIO 2.0*

*optional



MANAGE YOUR GARAGE:

HOW MCO 2.0 WORKS



Employee

01.

ORGANIZE

→ pages 10-13



Mechanic

02.

WORK

→ pages 14-15



A complete and state-of-the-art technology system that allows to manage the garage in an automatic way at all levels.

Each key position has its own level of control and operation.

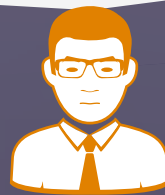


Workshop
manager

03.

MONITOR

→ pages 16-17



Owner

04.

CHECK

→ pages 18-19

→ p. 24-25

GPV 2.0

Solenoid valve
with integrated
flow meter.
(Only LAN connection)



→ p. 14-15

CONTROL UNIT 2.0

Dispositivo di
controllo
touchscreen.

Optional



→ p. 22

EASYVIEW 2.0

Dispenser nozzle
with display.

Optional

→ p. 23

Optional

TICKET PRINTER

For a printed report of
the dispensing data.



→ p. 18-19

SOFTWARE MCO 2.0

PC version main
software.



LA TUA OFFICINA 2.0



→ p. 16-17

PIUSI DONGLE 2.0

Mini PC for data display.

Optional



→ p. 14-15

CONTROL UNIT 2.0 MOBILE

Touchscreen control device

Optional

→ p. 23

OCIO 2.0

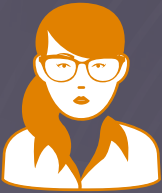
Level indicator

Optional



MCO 2.0 is composed of several elements connected via Wi-Fi or LAN that intercommunicate freely to perform the best system, ever.

ORGANIZE YOUR GARAGE: ALL WO IN A CLICK



01. ORGANIZE

→ Work order



WO LIST

Scroll through the list and check the state of completion.

DETAILED VIEW OF SINGLE WO

Who's working on that vehicle?
What does the work involve?



Each **day's workload** shown on a single page:

- ▶ Check everything that needs to be done;
- ▶ Add new processes and operations;
- ▶ Filter to display only the information of interest without wasting a single second.

MCO 2.0 is a server based system. This means that different people and multiple terminals can manage the organization, while remaining constantly synchronized.

PIUSI MCO 2.0 arises from the need to organize your work within your workshop. Starting right from your desk.

From your office work station MCO 2.0 SOFTWARE allows you to enter, display and manage work orders for the entire garage, checking states of completion and deadlines. Thanks to the weekly agenda function, all it takes is a glance.

→ AGENDA

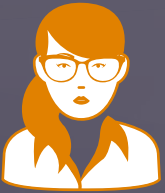
Switch to agenda view to get a **weekly and daily** overview. How's the work organized on a specific vehicle? When can you return it to the customer? Which mechanic is available?



CALENDAR VIEW



→ Master data



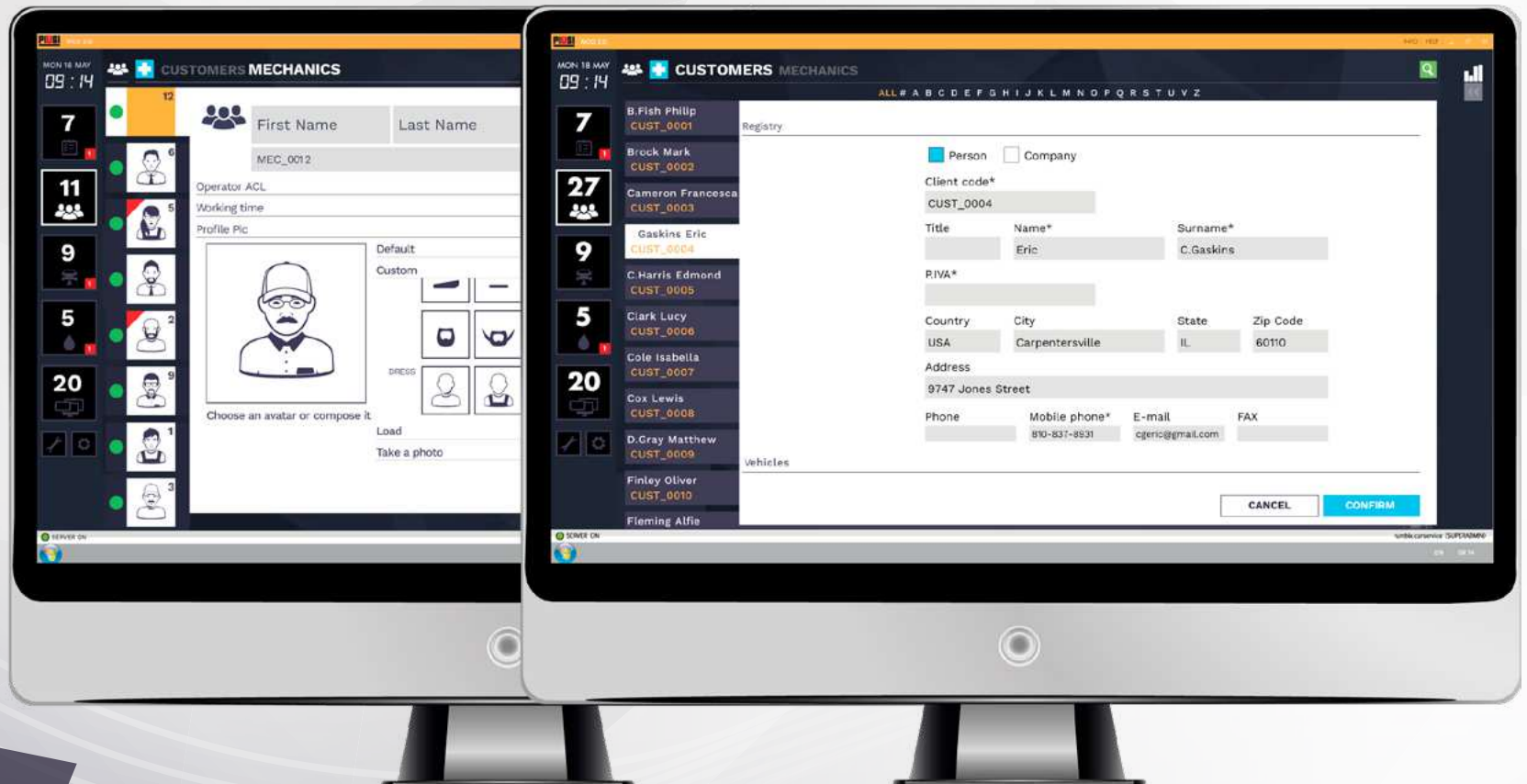
01. ORGANIZE

The garage **customers database** is extremely clear and easy to consult. Create an intuitive **list of your staff** so you can always keep track of who handled which job. This helps you to **optimally manage your daily workload**.

STAFF

Add operators and set access level credentials and working hours.

CUSTOMERS
Manage customers and vehicles.



→ Areas

Define **the work areas in your garage**. Each hose reel can be assigned to one or more work areas and to a specific tank. So you can get the job done more efficiently.

CONNECT
Each hose reel to its tank.

IDENTIFY
Each fluid with a different instantly-recognizable color.



VIEW
How your floor space is arranged.



MANAGE YOUR WORK THANKS TO CONTROL UNIT 2.0

→ Work plan

The touchscreen device allows the operator to **scroll through the tasks list**, which is constantly updated in real time. Particularly urgent **work orders** can be highlighted.



CONTROL UNIT 2.0 is available in a **wallmounting** version or in the **mobile CONTROL UNIT 2.0** version.



→ WO management

Basta un click e l'operatore può:

- ▷ Prendere in carico la lavorazione, visualizzandone tutti i dettagli;
- ▷ Specificare quale fluido andrà a utilizzare;
- ▷ Specificare la quantità di preset.

Al termine, l'operazione viene chiusa e registrata.

TASK SELECTION
All data relating to the task are displayed on one line.

MANAGEMENT

Open and close a work task.

PIN NUMBER

To identify the operator who is performing a task at any time.



MONITOR AND KEEP ALL UNDER CONTROL



03.MONITOR

REAL TIME
Display each
dispensing operation
in real time.

→ **Supervision**



PIUSI DONGLE 2.0 is a remote Wi-Fi device that allows simple connection to a normal monitor or TV **in order to show all current garage activities in real time.**



i

PIUSI DONGLE 2.0
IS COMPATIBLE WITH
MONITORS OF ANY
FORMAT
provided they feature an
HDMI port.

→ WO list

CONTROL

Check which vehicles are undergoing repairs during the day and which tasks are required.

SUPERVISION

Monitor the proper functioning of your GPV 2.0 and tanks.

The **various possibilities** of PIUSI DONGLE 2.0 **allow you to display** either the dispensing operations, work orders and tasks for the day, or the ongoing operations.

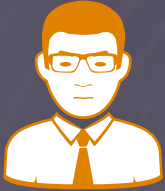
AIRPORT VIEW

The "airport" information board view shows pending work orders and those in progress.



i | WORK ORDERS VIEW

CHECK ALL INFORMATION WHEN YOU NEED MORE



04.CHECK

→ Tanks

OVERVIEW
To specify your plant.

MONITORING
The fluid level in each tank in real time.

ALARM LEVELS
Independently customizable.

Want to avoid running out of fluid? The tanks section allows you to **monitor the available fluid levels**, consumption quantities and fluids to be reordered, while highlighting any anomalies. There are no surprises when you use MCO 2.0.

→ Reports

Retaining all your data is of little use if you are missing the right tools to **rapidly analyze and highlight** anomalous situations. MCO 2.0 SOFTWARE will amaze you with its incredible **flexibility and ease of use**.

FILTER
Only the data you need.

GROUP
In accordance with your preferred criteria.



EXPORT
Data in .pdf
or .csv.



HOW MUCH POWER DO YOU NEED?


BUSINESS ENTRY


BUSINESS SUITE

TECHNICAL SPECIFICATIONS	MCO 2.0 SOFTWARE PROGRAM	
GPV 2.0 CONNECTED	Up to 30	Unlimited
DEVICES CONNECTED (GPV 2.0/PIUSI DONGLE 2.0/CONTROL UNIT 2.0/TICKET PRINTER)	Up to 100 tot	Unlimited
USERS	Unlimited	Unlimited
MECHANICS	Unlimited	Unlimited
CUSTOMER & VEHICLE DATABASE	Unlimited	Unlimited
DATA SYNC/DMS CONNECTION	.txt file	Microsoft WS
AUTOMATIC UPDATE	-	-
OCIO 2.0	-	-

PIUSI MCO 2.0

SOFTWARE REQUIREMENTS

The **heart of the system** is the PC software. **Packed with features**, the software was created to ensure the utmost ease of use and to improve your daily workflow. Try it and see.

MCO 2.0 BUSINESS ENTRY SOFTWARE

HARDWARE REQUIREMENTS

- ▷ **Monitor resolution:** 1280x728
- ▷ **CPU:** Intel® Pentium® 4 or AMD Athlon® 64 processor (2 Ghz or Higher)
- ▷ **RAM:** 4 GB
- ▷ **Hard Disk free:** 20 GB
- ▷ **Operating system:** Windows 10 Th1 1507 or later
- ▷ **Database:** Microsoft SQL 2019 CU16 Express (included in the installation)
- ▷ **Web Edition:** Internet connection required



MCO 2.0 BUSINESS SUITE SOFTWARE

HARDWARE REQUIREMENTS

- ▷ **Monitor resolution:** 1280x728
- ▷ **CPU:** Intel® Pentium® 4 or AMD Athlon® 64 processor (2 Ghz or Higher)
- ▷ **RAM:** 8 GB
- ▷ **Hard Disk free:** 20 GB
- ▷ **Operating system:** Windows Server 2016 or later
- ▷ **Database:** Microsoft SQL 2019 CU16 Express (included in the installation)
- ▷ **Web Edition:** Internet connection required
- ▷ **VMWare compliance** (web edition)



ALREADY GOT A DMS TO MANAGE YOUR WORK ORDERS?

No problem: MCO 2.0 will interface easily with your legacy application and remain synchronized with the data so you can continue to exploit the functions of both applications.

PIUSI MCO 2.0

HARDWARE

SOFTWARE
MCO 2.0

GPV 2.0*

Solenoid electrovalve with integrated flow meter, designed to guarantee a continuous duty performance.

Only LAN connection!



Standard
C14 connector



MAIN FEATURES:

- ▷ Accuracy $\pm 0,5\%$;
- ▷ Flow rate up to 30 l/min;
- ▷ Multi-tension 90/250V - 50/60 Hz;
- ▷ Power supply with standard C14 connector;
- ▷ Integrated LAN connection;
- ▷ Fixing through adjustable support included.

Data relative to the oil version. Other versions available on page 24-25

Optional

EASYVIEW 2.0

Dispensing nozzle with integrated display; through a wireless connection, it displays the measuring data of the associated GPV.



MAIN FEATURES:

- ▷ Flow rate up to 30 l/min;
- ▷ standard AA batteries;
- ▷ Automatic display shut-off;
- ▷ Integrated swivel;
- ▷ Rigid/flexible spout.

Optional

CONTROL UNIT 2.0

È il pannello di controllo per il personale dell'officina. Permette di avere una panoramica sulla lista di ordini completati e pendenti. Tutti gli ordini urgenti possono essere evidenziati.

Standard
C14 connector



MAIN FEATURES:

- ▷ Touchscreen;
- ▷ Multi-tension 90/240V;
- ▷ C14 connector;
- ▷ Wi-Fi;
- ▷ LAN adapter available;
- ▷ Wall mount bracket available.



Access Point



WI-FI/LAN
CONNECTION

Optional

CONTROL UNIT 2.0 MOBILE

It is the mobile version of the CONTROL UNIT 2.0: you can move it wherever you need it to always have your workshop at your fingertips. As the wall mount version it is the heart of the MCO 2.0 system being the control panel.



MAIN FEATURES:

- ▷ Touchscreen;
- ▷ Wi-Fi;
- ▷ battery powered;
- ▷ Camera;
- ▷ Rugged protection.

Optional

TICKET PRINTER

Allows you to print the latest operation on a receipt, in order to also keep a paper copy of the dispensing data.



MAIN FEATURES:

- ▷ Multi-tension 90/250V - 50/60 Hz;
- ▷ Wi-Fi;

Optional

PIUSI DONGLE 2.0

Remote Wi-Fi device that, once connected to a monitor, becomes a remote display of the MCO 2.0 system showing all the activities in real time.



MAIN FEATURES:

- ▷ compatible with monitors of any format with HDMI port;
- ▷ Wi-Fi.

Optional

OCIO 2.0

Advanced tank level indicator that allows a real-time control of your tank level. The level of the fluid is shown on the device itself or on your PC.



MAIN FEATURES:

- ▷ LAN or Wi-Fi version available;
- ▷ Suitable for tank up to 4 mt height;
- ▷ Up to 50 mt length probe tube;
- ▷ Suitable for any fluid;
- ▷ $\pm 1\%$ accuracy end of scale.

GPV 2.0: INTEGRATED METER VALVE

GPV 2.0 is part of PIUSI MCO2.0 as a component **specifically designed to control the flow of fluids** thanks to a solenoid valve (single or double) and an oval gear meter. It is available in several versions according to the fluid that has to be dispensed.

GPV 2.0
OIL



Specifically designed for lubricants:

- ▷ Filtration level up to 150 micron;
- ▷ Viscosity 5/2000 mPa*s
- ▷ Accuracy $\pm 0,5\%$
- ▷ Flow rate 2/30 l/min
- ▷ Operating pressure 70 bar
- ▷ Working temperature $-5^{\circ}\text{C}/+40^{\circ}\text{C}$
- ▷ 90/250V - 50/60Hz;
- ▷ 12/24V DC ciclo continuo
- ▷ Single or double solenoid valve version available.

GPV 2.0
DIESEL



Specifically designed for diesel:

- ▷ Accuracy $\pm 0,5\%$
- ▷ Flow rate 10/100 l/min
- ▷ Operating pressure 30 bar
- ▷ Working temperature $-5^{\circ}\text{C}/+40^{\circ}\text{C}$
- ▷ 290/250V - 50/60 Hz;
- ▷ Single valve version available.

GPV 2.0
WINDSCREEN



Specifically designed for windscreen:

- ▷ Accuracy $\pm 0,5\%$
- ▷ Flow rate 1/30 l/min
- ▷ Operating pressure 70 bar
- ▷ Working temperature $-5^{\circ}\text{C}/+40^{\circ}\text{C}$
- ▷ 90/250V - 50/60 Hz;
- ▷ Single valve version available.

GPV 2.0
AdBlue®



Specifically designed for AdBlue®:

- ▷ Accuracy $\pm 0,5\%$
- ▷ Flow rate 5/120 l/min
- ▷ Operating pressure 10 bar
- ▷ Working temperature $-5^{\circ}\text{C}/+40^{\circ}\text{C}$
- ▷ 90/250V - 50/60 Hz;
- ▷ Single valve version available.

GPV 2.0 UNIVERSAL: SUITABLE FOR ALL DEVICE & FLUID

GPV 2.0 UNIVERSAL is the final solution engineered by PIUSI for all those applications that need a unique system to manage all the fluids and devices.

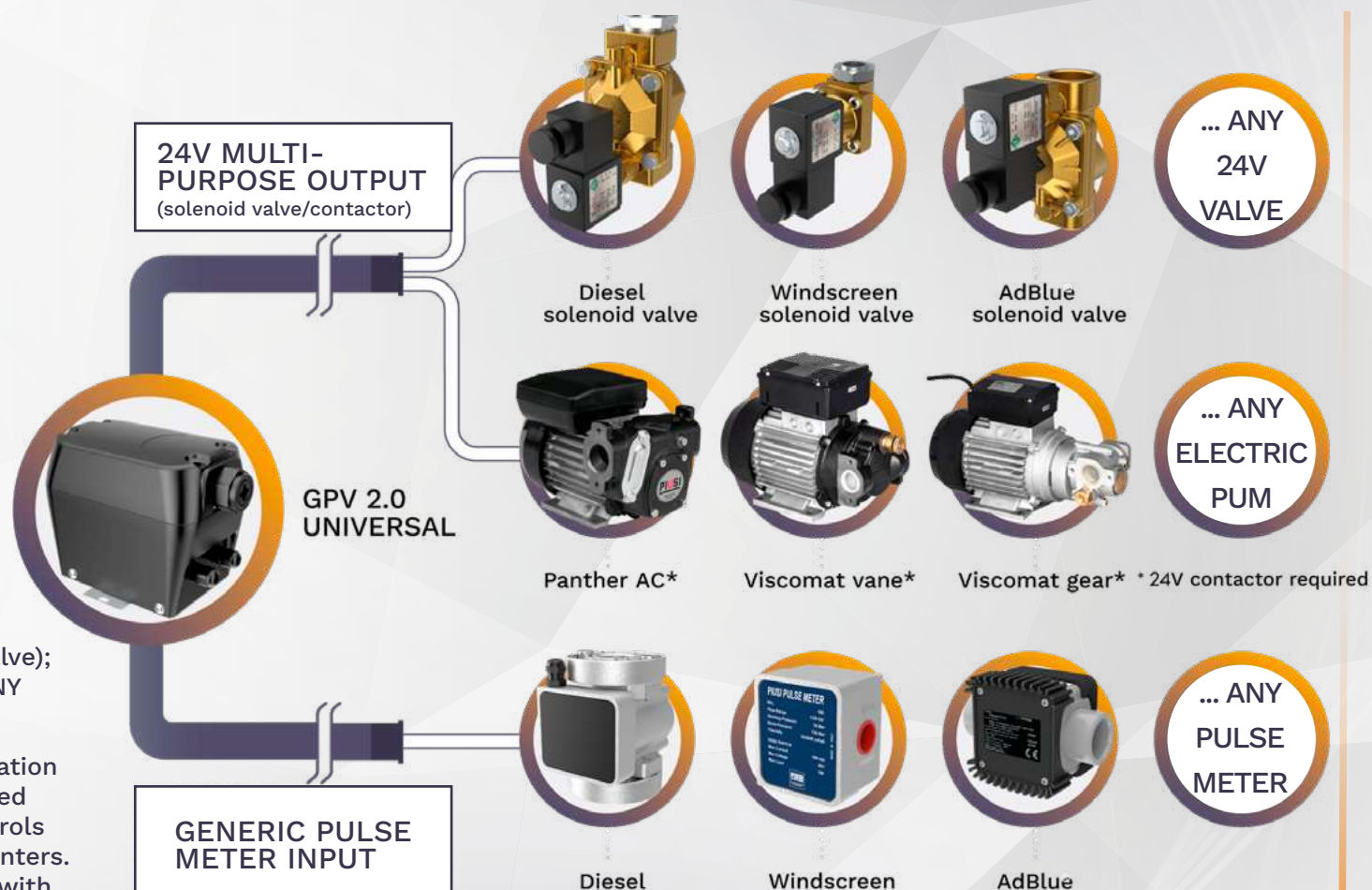
GPV 2.0 UNIVERSAL CONTROLLER



GPV 2.0 UNIVERSAL can manage:

- ▷ ANY pulse meter input;
- ▷ ANY 24V output (contactor or solenoid valve); thus the system is suitable to manage ANY fluid.

It has been designed and built for the installation of a single dispenser belonging to a centralized dispensing system on the supply line. It controls the flow through electro-valves and liter counters. The operation requires a remote connection with other components through LAN.



YOUR WORKSHOP AT HAND

With MCO GO and MCO 2.0, PIUSI has developed two fluid monitoring systems suitable for all workshops.

Discover the features of the two products and choose the one that suits your needs.

		
REPORT	Only with CLOUD SOFTWARE MCO GO*	V
NUMBER OF HOSE REELS	Up to 6/each CONTROL UNIT 2.0	Nessun limite
TANK LEVEL INDICATION	Calculated - only with CLOUD SOFTWARE MCO GO	V
TICKET PRINTER	V	V
INTEGRATION WITH DMS	Export CSV to flash drive or from CLOUD SOFTWARE MCO GO	V
NETWORK	Not required	LAN/Wi-Fi network required
MANAGEMENT OF MAINTENANCE&REPAIR TASKS	-	V
OPERATORS ACCESS CONTROL LIST (ACL)	-	V
VEHICLES AND CUSTOMERS MANAGEMENT	-	V
AGENDA SCHEDULING	-	V

MCO 2.0

ORDER CODES

Choose PIUSI and enter into the world of **centralized lubrication: optimize your costs, wastes and time** to enhance the profitability of your business!

SOFTWARE MCO 2.0

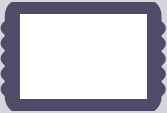
	CODICI	DESCRIZIONE	VALIDITÀ
	F00774000	MCO 2.0 CLIENT SOFTWARE • USB version	/
	F00774010	MCO 2.0 BUSINESS ENTRY SOFTWARE • USB version	/
	F00774020	MCO 2.0 BUSINESS SUITE SOFTWARE • USB version	/
	F00774200	MCO 2.0 CLIENT SOFTWARE* • web edition	/
	F00774210	MCO 2.0 BUSINESS ENTRY SOFTWARE • web edition	/
	F00774220	MCO 2.0 BUSINESS SUITE SOFTWARE • web edition	/
ACCESSORI			
	F2002100A	TICKET PRINTER WI-FI MCO 2.0	Wi-Fi

*The purchase of additional Client licences enables you to use the various versions of MCO 2.0 on multiple workstations.

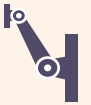
MCO 2.0

ORDER CODES

CONTROL UNIT 2.0 (OPTIONAL)

	CODICI	DESCRIZIONE	VOLTAGGIO	CONNESSIONE
	F0077601A	CONTROL UNIT MOBILE 2.0	100-240 V 50 - 60 HZ	Wi-Fi
	F0077600C	CONTROL UNIT 2.0	100-240 V 50 - 60 HZ	Wi-Fi

ACCESSORIES

	F20112000	KIT WALL MOUNT BRACKET CU	/	/
	F20592000	ETHERNET ADAPTER MCO 2.0	/	USB
	F20089000	BARCODE READER USB MCO 2.0	/	USB
	F1226201A	KIT KEY READER MCO 2.0	/	USB
	F1590400A	USER KEY • 10 YELLOW KEYS	/	/

MCO 2.0

ORDER CODES

PIUSI DONGLE 2.0 (OPTIONAL)

	PART NUMBER	DESCRIPTION	CONNECTION
	F0077602A	PIUSI DONGLE 2.0	WI-FI
ACCESSORIES			
	F20086000	INSTALLER KIT MCO 2.0 (for GPV 2.0 and PIUSI Dongle 2.0)	/

OCIO 2.0 (OPTIONAL)

	PART NUMBER	DESCRIPTION	FLUID	VOLTAGE	
				AC V. / Hz	Power Watt
	F00755260	OCIO 2.0 LAN	A B D O W Ws	230V / 50-60Hz	20
	F0075521A	OCIO 2.0 WI-FI	A B D O W Ws	230V / 50-60Hz	20
ACCESSORIES					
	F12939000	KIT OIL TUBE • OCIO 2.0			
	F1391300A	KIT 50 MT PIPE • OCIO 2.0			
	F15611000	STAINLESS STEEL PROBE FOR AdBlue® • OCIO 2.0			

A antifreeze • B biodiesel • D diesel • O oil • W water • Ws windscreen

MCO 2.0

ORDER CODES

EASYVIEW

	PART NUMBER	DESCRIPTION	FLUIDS	FLOW-RATE L/MIN	CONNECTION	INLET
	F00779010	EASYVIEW • RIGID	 oil	up to 30	Zigbee (to GPV 2.0)	1/2" BSP
	F00779000	EASYVIEW • FLEXIBLE	 oil	up to 30	Zigbee (to GPV 2.0)	1/2" BSP

GPV 2.0 (ONLY LAN CONNECTION)

	PART NUMBER	DESCRIPTION	FLUIDS	FLOW RATE		VOLTAGE	
				l/min	gpm	AC V. / Hz	Max Power Watt
	F0044600B	GPV 2.0 • SINGLE VALVE	 oil	30	7,9	90/250V - 50/60 HZ	25
	F0044601B	GPV 2.0 • DOUBLE VALVE	 oil	30	7,9	90/250V - 50/60 HZ	25
	F0044606B	GPV 2.0 • SINGLE VALVE • remote	 oil	30	7,9	90/250V - 50/60 HZ	25
	F0044603A	GPV 2.0 • SINGLE VALVE	 windscreen	30	7,9	90/250V - 50/60 HZ	25
	F0044607A	GPV 2.0 • SINGLE VALVE	AdBlue®	120	32	90/250V - 50/60 HZ	25
	F0044608A	GPV 2.0 • SINGLE VALVE	 diesel	100	31,6	90/250V - 50/60 HZ	25
	F0044605A	UNIVERSAL VALVE/ PULSER CONTROLLER	any	/	/	90/250V - 50/60 HZ	25

ACCESSORIES

	F19914000	KIT WALL MOUNT BRACKET GPV / GPVS	/	/	/	/	/
---	-----------	-----------------------------------	---	---	---	---	---

MCO 2.0: STEP INTO THE ERA OF A CENTRALIZED LUBRICATION.

MCO 2.0 is an oil monitoring system created by PIUSI and available worldwide through a network of professional dealers.

Get in touch with our local partners to order your own system or contact PIUSI directly for more information.

PIUSI

MADE IN ITALY



piusi.com

PIUSI S.p.A. • 46029 Suzzara (Mantova) - Italy
tel. +39 0376 534561 • fax +39 0376 536393 • piusi@piusi.com

PIUSI USA, Inc. • 3901 Anglers Ave Fort Lauderdale, FL 33312
tel. 954 584 1552 • fax 954 584 1554 • piusiusa@piusiusa.com

11.24 | EN