

MICROCOMPT+

Metering & automation calculator for loading, unloading operations as well as hydrocarbons and alcohols transfer



MICROCOMPT+

Application

Transactional metering in volume or weight of hydrocarbons, biofuels, additives, dyes, LPG and alcohols

- Truck, railcar, ship loading / unloading
- Pipe shipment / reception
- Additivation / Dyeing
- Loading arm or on-line blending



Product Certification



Material in conformity with Measuring Instruments Directive 2004/22/EC



ISO 9001 : 2008



ATEX conformity
Zone 1 Gas group B



European certifications in accordance with directives concerning measuring instruments and equipment installed in explosive area

Constitution

- **Aluminum case including**
 - Central unit with memory storage
 - 230V power supply and inputs/outputs
 - LCD screen and navigating pushbuttons
 - Up to 12 cable glands
 - Terminal strips to local equipment and computer networks

Product benefits

- Compact design
- Calculator covering all metering, additivation and blending needs
- High connection capability without additional accessories



MICROCOMPT+

Key features

The MICROCOMPT+ calculator has been specially designed to provide an automated metering solution for professionals.

It provides all the necessary functionality for installations dealing with measuring systems for liquids other than water.

Its ATEX certified casing means it can be installed in hazardous areas as close as possible to the metering system. Its input and output enables connection to all peripheral devices. It can control 2 metering systems and for each has an acquisition capacity of up to 500 Hz of square-wave pulse signals and PT100 temperature sensors.

It enables the control of analogue or incremental on/off loading valves. The key functions of MICROCOMPT+ are pre-determination, flow control, correction and conversion as well as communication. In addition, it manages the essential functions of mixing, additivation and dye.

It encompasses additional functions linked to legal metrology, notably the detection and purge of gas, totaling without zero reset as well as a storage capacity greater than 90 days and at least 5000 transactions.

It can control the main count, the mixing system and 3 additive injectors. With an additional piece of ALMA equipment, it can manage up to 8 additive injectors.

Whether the MICROCOMPT+ is used to control a loading arm, an unloading system or a pipeline, the integrated automatic input/output enables a use either autonomously or in conjunction with a control system connected to a Modbus RS485 network.

Its large LCD screen and easy-use push button system, allows for readings, errors, alarms and key instructions to be displayed in 2 languages. Because of its functional capacity and hardware architecture, it requires only a single power supply and a computer link with the safe zone to be operational.

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CONSTRUCTION ATEX VERSION

Weight:	12 kg
Cable gland:	12 (8 ½ NPT + 4 ¾ NPT)
Protection degree:	IP66
Temperature range:	-20°C to +55°C

Inputs / Outputs

Metering:	Up to 7 inputs 500 Hz (product, additive, blending)
Valve controller:	Up to 7 outputs 230 V (product, additive, blending)
Analog output:	4-20 mA assignable to one or other loading valves
Temperature:	2 inputs PT100 3 threads
Pressure/Density:	2 inputs 4-20 mA 16 bits
Communication:	2 RS485 Modbus ports
Metering readout:	2 outputs TOR open passive manifold
Detection/gas purge:	2 input/output sets

MMI / INDICATOR

LCD screen with:

- 6 figures for metering (27mm)
- 20 messages for alarm, defect, instruction (9 mm)
- Unit of measure pictograms (L, kg, m³/h, °C)

Accuracy class:
1, 0.5 or 0.3 depending on conditions of use

Automatism


TOR inputs application to contact or open manifold (earth, anti-overflow, vapor arms, arm connection / orientation, isolation valve positioning, security valve positioning ...)

TOR outputs application to 24V / 0,2 (defect alarm, additive & product pump request, additive isolation valve controller, security valve shut-down controller)

Power supply

230V - peripheral distribution ensured by the MICROCOMPT+
115V version (upon request)

Certifications

ATEX:  II 2 (1) G Exd [ia Ga] II B T6 Gb

CET LNE-13264 (MID)
WelmeC 8.8

Options

Microcompt+ available in 19" rack version for safe area installation



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