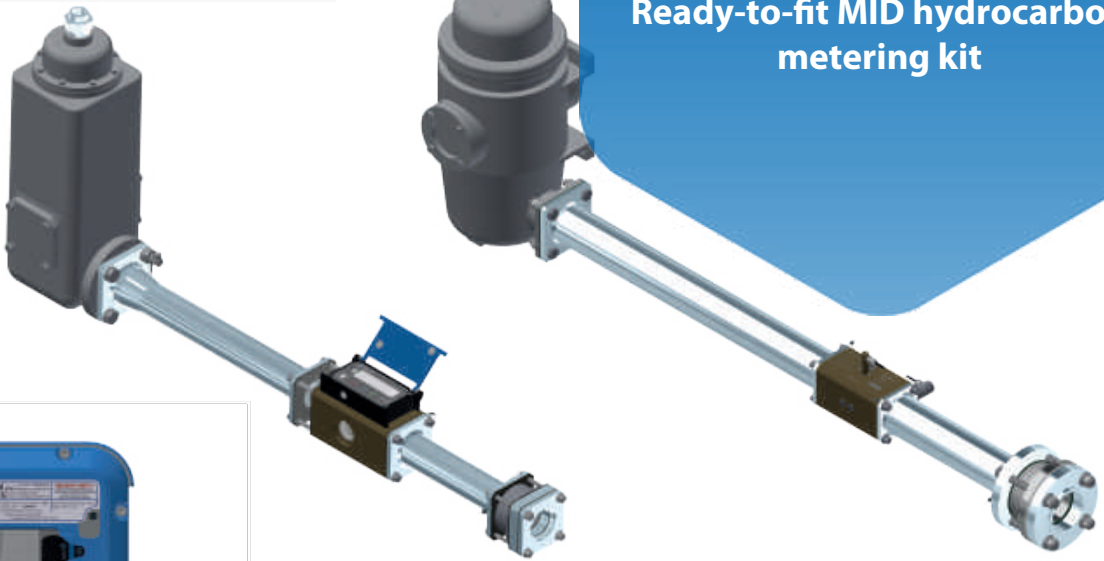


OEM FMS

Ready-to-fit MID hydrocarbon metering kit



OEM FMS

Application

Transactional hydrocarbon metering
(Diesel fuel/ Petrol / Heating oil / Jet fuel)



Product Certifications



Equipment conforming with the Measuring Instruments Directive 2014/32/EU (MID)



ISO 9001



ATEX compliant
Zone 1 Gas group B



European Certifications
Compliant with the measuring instruments directive and the directive covering equipment installed in explosive areas

Constitution

- Filter / Gas separator
- 2" or 3" class 0.5 turbine
- Microcompt+ or UNI

Advantages

- MID
- Ready for installation downstream of the pump
- Stand-alone unit
- Numerous communication channels



Main characteristics

The FMS OEM system, which has an MID certificate, consists of a fully factory-assembled hydraulic unit, comprising a gas separator, a filter, a turbine, a temperature sensor, a check valve and pipe elements. And in addition, the computer which is installed directly on the turbine body in the UNI frame ready to be connected in the frame of the Microcompt+.

The OEM FMS system supplied by ALMA is a transactional 0.5 class hydrocarbon metering sub-assembly, that integrators will be able to install on a skid, adding the valve and pump. The FMS system, designed to operate in an ATEX zone, is available in two flow ranges

(4-48 and 8-80 m³/h) with either of the ALMA metering computers.

The UNI model for building a simple metering system or the Microcompt+ model for processing wired or wireless communication with the environment.

Depending on the configurations implemented, the system provides determination of volume at 15°C, metering, free or on predetermination, control of small and large throughput, printing of a ticket and provision on the supervisory communication media of all dynamic operating parameters as well as the history of transactions recorded in the MID* regulatory memory.


* Ethernet / WiFi / Bluetooth and RS485 depending on the Modbus module

Model	UTP 48	MTP 48	UTP 80	MTP 80
Piping	2"		3"	
Flow (Min / Max)	4 / 48 m ³ /h		8 / 80 m ³ /h	
Hydraulic connection (in/out)	DN80 (for welding) / DN50 (for welding)		DN80 (for welding) / PN20	
Viscosity (max)	< 10 CTS		< 13 CTS	
Pressure (Min / Max)	2.3 / 10 bar		0.3 / 8 bar	
Computer	UNI	Microcompt+	UNI	Microcompt+
Product	Petrol or distillate (To be specified when ordering)		Petrol & Distillates	
Built-in filtration	200 µm			
Product temperature	-10 / +50 °C			
Power supply	Built-in battery	230 V	Built-in battery	230 V
HMI interface	English / French (to be specified when ordering)			
Integrated communication	Infra-red with CTD+ key	Ethernet, CAN, RS485, Bluetooth	Infrared with CTD+ key	Ethernet, CAN, RS485, Bluetooth
Dimensions (excl. computer)	1,230 x 230 x 560		1,830 x 368 x 630	
Weight (excl. computer)	31 kg		51 kg	
LNE FMS certificate	No. 34 714			

Options depending on model

For UTP 48 and UTP 80	For MTP 48 and MTP 80
MPLS module handling valve control and the printing of a ticket	Printing kit comprising a printer, an interface and a power supply
Printing kit (use from key data)	WiFi communication module (replacing the Bluetooth)
Data transfer key (CTD+)	GSM / GPS communication module with ATEX area antennas

ADRIANE Turbine -  II 2 G c IIC T6

UNI version -  II 1 G Ex ia IIB T4 Ga

Microcompt+ Version -  II 2 (1) G Ex d [ia Ga] IIB T6 Gb