

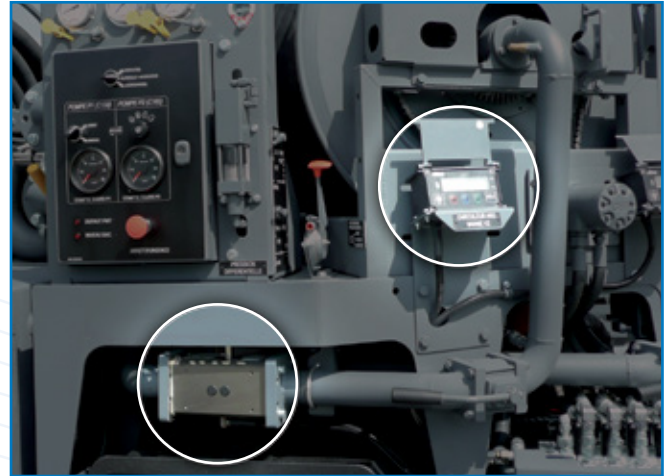
# AUTONOMOUS TURBINE METER

Autonomous turbine meters dedicated to liquid petroleum measurement for tank truck, terminal & mobile applications

## ► Application

Autonomous turbine meter covers many petroleum applications such as:

- On truck metering solution
- Skid and transfer metering
- Mobile autonomous meter



Autonomous turbine meter DN50-50 with UNI electronic calculator mounted separately

## Constitution

### AUTONOMOUS TURBINE METER

- Size available: 1" <sup>3</sup>/<sub>4</sub> to 6"
- Body: aluminum or stainless steel
- Rotor: aluminum or titanium
- Bearing: ceramic or carbon
- Pulse emitter: 2B00 (double wound coil)
- UNI electronic calculator (lithium-ion battery) mounted on turbine or separately
- Integrated flow conditioner
- Flanges: square, TTMA, PN 16 (other PN# on request)
- Options:
  - Temperature probe
  - Second pulse emitter
  - Data transfer key CTD+



Autonomous turbine meter DN80-80 mounted with UNI electronic calculator

## ► ALMA Advantages

- High accuracy (0,1 %), repeatability (0,02 %) and long life reliability
- Very low pressure drop for optimum flow rate
- No external power, long life battery (2 years)
- Flow conditioner integrated: no straight lengths required
- Turbine and UNI electronic calculator MID approved
- Both authorized vertical or horizontal installations
- Adaptable and compact design
- Data collection through key CTD+

## ► ALMA, certified products



ATEX Conformity  
Zone 1



ISO 9001 : 2008



European Certifications in accordance with directives concerning equipments installed in explosive area

## ► Technical specifications

Item #	Product Designation	Nominal Diameter	Flow (m <sup>3</sup> /h)		Liquids	Viscosity (mm <sup>2</sup> /s)	Max. Pressure (bar)	Mechanical Features				
			Min.	Max.				Flange	Body	Rotor	Axis	Bearing
0415	METER MOBICOMPT DN 32-25 232 1"1/4 MF	1"1/4	2,5	25	Multi	13	25	BSP 1"1/4 M/F	Alu	Alu	S.S.	Carbon
8601	AUTONOMOUS TURBINE METER DN 50-30 GPL 242 100X100 / UNI	2"	6	30	LPG	1	30	sq 100x100	Alu	Alu	T.C.*	Ceramic
1152	AUTONOMOUS TURBINE METER DN 50-50 FOD 241 100X100 / UNI	2"	4	50	Gasoil	10	30	sq 100x100	Alu	Alu	T.C.	Carbon
0573	AUTONOMOUS TURBINE METER DN 50-50 FOD 241 100X100 / 2B00 / UNI	2"	4	50	Gasoil	10	30	sq 100x100	Alu	Alu	T.C.	Carbon
8698	AUTONOMOUS TURBINE METER DN 80-80 MULTI 241 110X110 / UNI	3"	8	80	Multi	13	30	sq 110x110	Alu	Alu	T.C.	Carbon
1508	AUTONOMOUS TURBINE METER DN 80-80 MULTI 241 110X110 / 2B00 / UNI	3"	8	80	Multi	13	30	sq 110x110	Alu	Alu	T.C.	Carbon
1587	AUTONOMOUS TURBINE METER DN 80-80 CHEM 373 PN16 / 2B00 / UNI	3"	8	80	Chem.	13	30	PN16	S.S.	Tit.	T.C.	Carbon
1014	AUTONOMOUS TURBINE METER DN100-80 MULTI 241-V TTMA / 2B00 / UNI	4"	8	80	Multi	13	30	TTMA	Alu	Alu	T.C.	Carbon
1642	AUTONOMOUS TURBINE METER DN 100-150 MULTI 373 PN20 L=490 mm / 2B00 / UNI	4"	15	150	Multi	13	20	PN20	S.S.	Alu	T.C.	Carbon
1644	AUTONOMOUS TURBINE METER DN150-600 MULTI 113 PN100 / 2B00 / UNI	6"	60	600	Mono/ Multi	13	100	PN100	Steel	Alu	T.C.	Carbon
1643	AUTONOMOUS TURBINE METER DN150-600 MULTI 113 PN20 / 2B00 / UNI	6"	60	600	Mono/ Multi	13	20	PN20	Steel	Alu	T.C.	Carbon

\* T.C.: Tungstene Carbide

ATEX Certificate: **ATEX II 2 G**MID Evaluation Certificate **LNE-12393 for Turbine**MID Evaluation Certificate **LNE-25603 for UNI electronic calculator**

### Achievement examples

