

MIT – Turbine Injection Module

Turbine Injection Module enabling metrological & accurate blending of Ethanol or FAME on petroleum loading skid

► Application

- To create metering device for liquids other than water, MIXCOMPT type (**EC N°LNE-23911**)
- Ethanol or FAME blending up to 33% at 150m³/h
- Creation of final product from basic product (E5, E10, E85, etc.)

Constitution

MIT – Turbine Injection Module

- 1 DN50-50 ADRIANE Turbine
- 1 digital flow control valve DN50
- 1 T filter
- 1 2H00 pulse transmitter
- 1 PT100 temperature probe with 1 thermo well

Option:

- 1 DG3001 Gas sensor
- 3" version available (upon request)



MIT in situ



MIT 3D view

ALMA Advantages

- ALMA design, manufacture & calibration
- Plug and play
- Compact size
- Easy integration into all types of skids
- Various possible orientations

► ALMA, certified products



ATEX Conformity
Zone 1



ISO 9001 : 2008



European Certifications in accordance with directives concerning measuring instruments and equipments installed in explosive area

► Technical specifications

Construction	
Turbine:	Light alloy Evaluation Certificate N°LNE-12393 (MID) ATEX II 2G
Pipe:	Steel
Flange:	DN50
Inlet/outlet connections:	DN80 (option)
Filtration:	200 µm (80 mesh)
Weight:	55 kg
Range	
Flow rate:	4 to 50 m ³ /h
Viscosity:	0,5 to 10 cSt
Working pressure:	10 bars max.
Accessories	
Piloted through ALMA Microcompt+ batch controller or others	
ESD valve DN50 ATEX II 2 G	
Purger & DG3001 gas sensor	

Performances	
Accuracy class:	0,5
Pulse rate:	10 imp. /liter
Repeatability:	0,02%
Liquid temperature:	-10°C to +50°C
Flow container:	Integrated

Functions	
Metering by double pulse transmission (square signals 0-12V) by 2H00 pulse transmitter, ATEX II 2 G	
Command of digital flow control valve DN50 ATEX II 2 G	
Calibration device and proof check at injection point	
Set up of flow and filtration integrated	
Temperature tap	

Example of dimensional drawings:

