

# ZCE6

## Horizontal measuring unit for truck and railcar loading

The ZCE6 metering unit is designed for truck and train tankers loading stations in top or bottom loading configuration.

The compact, horizontal measuring unit enables easy installation in smaller facilities.



### 1. Sectors of application

- Tanker trucks and railcars loading meters
- Preparation of bio-fuels by means of online or batch blending
- Measurement of white products and bio-fuels
- Additive injection control

### 2. Key points

- **Automatism**
  - Blending control with actions on control valves
  - Loading
- **Metrology**
  - real and temperature corrected volume
  - Totaliza
- **Communication**
  - Direct communication with supervisory system

### 3. Best – In-Class technology

- **Low maintenance cost**

Simple and robust construction with minimal moving mechanical components

- **Low installation cost**

Compact metering unit for installation in similar areas

- **Safe use**

Measuring system supplied « fully assembled » and tested in the factory in order to ensure maximum reliability

- **Measurement stability and accuracy**

Measurement accuracy guaranteed over a period of many years without any deviation in the calibration curve

- **Modular design**

Extensive line of accessories to create customized measurement applications

## Standard installation

Application			Truck and railcar loading		
Measuring system			ZCE6	ZCE6 M	ZCE6 T
Strainer-gas elimination device	EC31	3"	•	•	•
	EC32	4"	•	•	•
	EC39	6"	•	•	•
Meter	ZC17-80 150	3" – 4"	•		
	ZC17-250	6"	•		
	MFM	2" à 4"		•	
	Turbine	3" et 4"			•
Flow register	VR (mechanical)		•		
	Equalis		•	•	•
Multi-function valve	XAD37	3"	•	•	•
	XAD36	4"	•	•	•
	XAD34	6"	•	•	•

Measuring system		ZCE6	ZCE6 M	ZCE6 T
Maximum flow rate	m <sup>3</sup> /h	80-150-250	430	300
	l/mn	1333-2500-4166	7167	4888
	USGPM	360-660-110	1905	1320
Description		Horizontal unit		
Measured parameters		Horizontal or vertical unit		
Measured liquids		Actual volume, temperature-corrected volume*, mass*, flow rate**, temperature* (* : only for electronic register version) (** : option for mechanical register version)		
Equipment		Petrol, premium fuels, diesel, E5...E85, bio-diesel, ethanol, methanol, kerosene, fatty acid methyl ester, oils		
Stainer – Gas elimination device		50 to 450µ filtering (270 to 40 Mesh) depending on the liquid – not necessary for ZCE6 M Gas release controlled by float and differential valve		
Meter		PD Meter	Mass flow	Turbine
Temperature measurement		4-wire Pt100 (option for electronic calculator version)		
Multi-fonction valve		Small and large flow authorisation, flow limitation Electronical control for DN 2" to 6" and mechanical control DN 2" to 4"		
Flow register		Mechanical register with pre set*, printer*, pulser* or Equalis electronic register with display, secure archiving of transactions		
Operating conditions				
Pressure		10 bar max.		
Maximum viscosity		50cSt max. – Ask us about greater viscosities		
Temperature		Ambiant : -40 to 60°C / Liquid :-10 to +80°C Ask us about higher or lower temperatures		
Metrological performance				
Accuracy		≤±0.15% - Option ≤±0.1% - for measurement range of 10 : 1		
Repeatability		≤±0.02%		
Temperature accuracy		≤0.5°C		
Installation				
Protection class		IP66 for electronic register version		
Custody transfer approval		MID/EC evaluation certificates : according to OIML R117-1		

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