

Countum Group

SATAM

Metering Solutions



Reception measuring unit with pump

ZCE 21

ZCE21 is a reception measuring unit designed for tanker truck and tanker train hydrocarbons off-loading. It has an integrated pumping unit and is supplied pre-cabled, tested and mounted on a support frame.

It allows for immediate use without requiring electrical cabling and complex hydraulic connections.

It is a compact design construction and can be easily installed in small areas.

Flow computers

Measuring systems

Flow meters

Accessories

Sectors of application

- Tanker truck unloading operations
- Hydrocarbon reception from rail tanker
- Fuel delivery to service station
- Measurement of white products and bio-fuels

High reliability measuring system

A robust and reliable measuring design

PD meter with moving blades

Excellent long term stability

Integrated strainer and air eliminator

Measurement accuracy independent of liquid viscosity

A high flexibility of installation

Fully factory assembled and tested measuring system

Direct connection to truck and storage tank tubing

A safe and easy-to-use technology

Automatic gas purge system to start off-loading with empty tubing

Key points

Low maintenance costs

Simple and robust construction with minimal moving mechanical components.

Low installation cost

Compact metering unit for installation in smaller areas.

Safe Use

Measuring system supplied fully assembled and factory tested in order to ensure a maximum reliability.

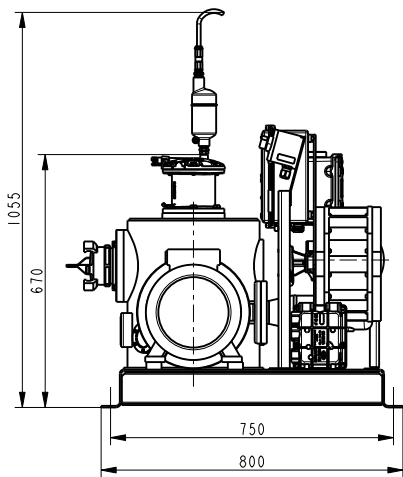
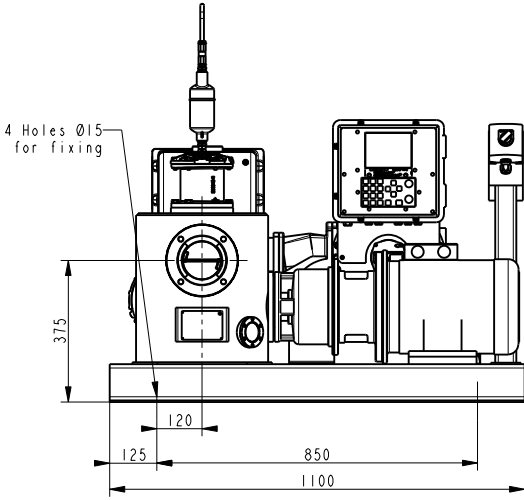
Measurement stability and accuracy

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.

Technical data - Reception measuring unit with pump

Measuring system		ZCE 21
Maximum flow rate	m ³ /h - l/mn - USGPM	60 - 1000 - 264
Application		Reception metering of liquid petroleum products
Measured parameters		Actual volume, temperature-corrected volume*, mass*, flow rate**, temperature* (* : only for electronic register version) (** : option for mechanical register version)
Measured liquids		Petrol, premium fuels, diesel, E5...E85, bio-diesel, ethanol, methanol, kerosene, fatty acid methyl ester oils
Equipment	Gas elimination device – Stainer	Model EC 41/60 Filtering 50 to 450 (270 to 40 Mesh) depending on the liquid Gas release controlled by float and differential valve
	PD Meter	Model ZC 17 - 80
	Temperature measurement	4-wire Pt100 (option for electronic calculator version)
	Multi-functions valve	Model XAD 37 2" Small and large flows, authorization, flow limitation Electronic Control for DN 2" to 6" Mechanical Control for DN 2" to 4"
	Flow register	Mechanical register model VR with preset*, printer*, pulser*, (* : option) or Equalis electronic register with display, secure archiving of transactions
	Centrifugal electro-pump	Total Dynamic Head (TDH) 25m – 5.5Kw / TDH 30m 7.5 kW / TDH 40m – 11 kW
Operating conditions	Pressure	10 bar max.
	Viscosity	20cSt max.– contact us about higher viscosities
	Liquid temperature	-10 to +80 °C
	Ambient temperature	-25 to 55 °C (Contact us about higher and lower temperatures)
Metrological performances	Volume accuracy	≤ ±0.15 % - Option ≤ ±0.1 % - for measuring range 10 : 1
	Volume repeatability	≤ ±0.02 %
	Temperature accuracy	≤ 0.5 °C
Installation	ATEX certification	Zone 1 - II 2 G
Custody transfer approval		EEC Approval Certificate n°F06 C 1139 Type compliance certificate OIML R117-1 n°LNE-24351
Dimensions and weight		Net weight : 285 kg - Gross weight : 400 kg
		

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