

Belz Instruments Pvt. Ltd.

Calibrate with Confidence



CAM-3000H Handheld Ultrasonic Flowmeter



**Empowering Industry
with
Technology**

CAM 3000H is a portable Ultrasonic Flow Meter that allows easy measurement of flow rates in pipes by installing sensors on the outside of pipes using non contact method. It is a compact and convenient solution to accurately measure system flow rates without breaking or opening the pipes.

This portable tool packs big features into a small, lightweight package. It is a go-anywhere portable

meter that measures flow from outside plastic, metal or concrete-lined pipes non-intrusively, so there's no pressure drop, leaks or contamination.

A variety of liquids can be measured like ultra-pure liquids, potable water, chemicals, raw sewage, reclaimed water, cooling water, river water, plant effluent etc.

FEATURES

- **High Accuracy Measurement** : Accuracy: $\pm 1\%$, Linearity : 0.5%, Repeatability: 0.2%.
- **Wide Measuring Range** : Several types of transducers for selection, measuring pipe size from DN 15 mm to DN 6000 mm.
- **Large Capacity Battery** : Built-in chargeable Ni-MH battery, provides over 12 hours of continuous operation.
- **Non-intrusive Measuring** : Non-intrusive, clamp-on transducer, no pressure drop, no pipe disturbance.
- **Large LCD Display** : Display instantaneous flow, accumulated flow (positive, negative and net), velocity, working status etc.
- **Built-in Data Logger** : Built-in 24K data logger, store over 2000 lines measuring data.

MEASURING DIAGRAM



Clamp On Transducers

- * Install the clamp on transducer (with magnet) on the pipe, finish the flow measurement. No pressure drop, no need to cut off the pipe
- * Several types of transducers for selection, measuring pipe size from DN15mm to DN 6000 mm



Clamp On Mounting Bracket Transducers

- * Bracket transducer can simplify the ultrasonic flowmeter installation process, shorten installation time and improve installation accuracy
- * Install the clamp on bracket transducer (with magnet) on the pipe, finish the flow measurement. No pressure drop, no need to cut off the pipe
- * Several types of transducers for selection, measuring pipe size from DN 15 mm to DN 700 mm
- * Several types of bracket transducers for selection, measuring temperature range from -30°C to 160°C

APPLICATIONS



Water supply and drainage



Heating



Energy saving



Metallurgy

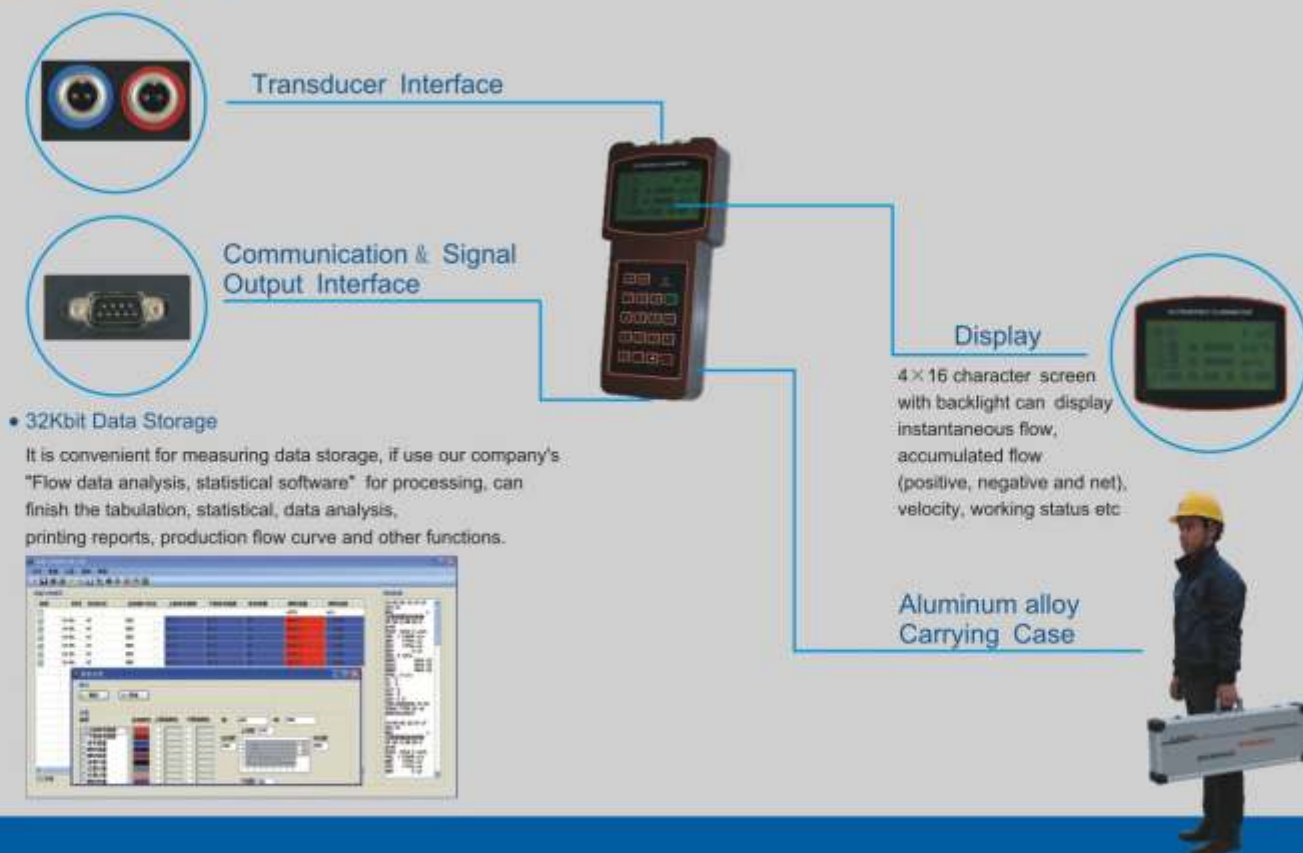


Petrochemical



Power

PARTS DESCRIPTION



OPTIONAL TRANSDUCER

Types	Picture	Spec.	Model	Measurement Range	Temperature	Dimension
Clampon		Small Size	TS-2	DN15~DN100	-30 ~ 90°	45×25×32mm
		Medium Size	TM-1	DN50~DN700	-30 ~ 90°	64×39×44mm
		Large Size	TL-1	DN300~DN6000	-30 ~ 90°	97×54×53mm
High Temperature Clampon		Small Size	TS-2-HT	DN15~DN100	-30 ~ 160°	45×25×32mm
		Medium Size	TM-1-HT	DN50~DN700	-30 ~ 160°	64×39×44mm
		LargeSize	TL-1-HT	DN300~DN6000	-30 ~ 160°	97×54×53mm
Mounting Bracket Clampon		SmallSize	HS	DN15~DN100	-30 ~ 90°	318×59×85mm
		MediumSize	HM	DN50~DN300	-30 ~ 90°	568×59×85mm
		Extended	EB-1	DN300~DN700	-30 ~ 90°	188×59×49mm
High Temperature Mounting Bracket Clampon		SmallSize	HS-HT	DN15~DN100	-30 ~ 160°	318×59×110mm
		MediumSize	HM-HT	DN50~DN300	-30 ~ 160°	568×59×110mm
		Extended	EB-1-HT	DN300~DN700	-30 ~ 160°	188×59×49mm

DATA SHEET

Items	Performance & Parameter	
Convertor	Principle	Transit - time ultrasonic flowmeter.
	Accuracy	±1%.
	Display	4×16 character LCD with backlight.
	Signal Output	1 way OCT pulse output (Pulse width 6~1000 ms, default is 200 ms).
	Data Interface	Insulate Rs. 232 serial interface, upgrade the flowmeter software by computer.
Pipe Installation Condition	Pipe Material	Steel, Stainless steel, Cast iron, Copper, Cement pipe, PVC, Aluminum, Glass steel product, liner is allowed.
	Pipe Diameter	15 ~ 6000 mm.
	Straight Pipe	Transducer installation should be satisfied : upstream 10D, downstream 5D, 30D from the pump.
Measuring Medium	Type of Liquid	Single liquid can transmit sound wave, such as Water (hot water, chilled water, city water, sea water, waste water, etc.); Sewage with small particle content; Oil (crude oil, lubricating oil, diesel oil, fuel oil, etc.); Chemicals (alcohol, etc.); Plant effluent; Beverage; Ultra - pure liquids, etc.
	Temperature	-30~160°C.
	Turbidity	Not more than 10000 ppm and less bubble.
	Flow rate	0 ~ ± 10 m / s
Working Environment	Temperature	Convertor: - 20 ~ 60°C; Flow Transducer; - 30 ~ 160°C
	Humidity	Convertor : 85 % RH; Flow Transducer : Ip67
Power Supply	3 AAA built - in Ni-MH batteries 1.2V (for over 12 hours of operation). 90V - 260 V AC adapter.	
Power Consumption	1.5W	
Case Material	ABS	
Dimension	200* 93* 32 MM (Convertor)	

Other Activists Include:

Calibration

Belz calibration laboratory is accredited as per ISO/IEC: 17025 : 2005 by NABL (National Accreditation Board for Testing & Calibration Laboratories.)
Deptt. of Science & Technology, Govt. of India



Torque/Force



High Current/Voltage

Instrument Supply



Training and Consultancy

"BELZ" Organizes training programs & workshops on calibration and quality aspects at regular intervals at Lab & Customer's site to enhance & up skill knowledge of personnel. Faculty for training is arranged from prestigious & renowned institutions & industries.



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