

E instruments

EColine Ultrasonic Flowmeter LR-2K

Portable Compact Ultrasonic Flowmeter for Industrial Applications

EColine

Combustion Gas Analysis

- High Accuracy measuring
Velocity: ± 32 m/s
Accuracy: $\pm 1\%$
Linearity: 0.5%
Repeatability: 0.2%
- Non-intrusive measuring
Non-intrusive, clamp-on transducer
no pressure drop
no pipe disturbance
- Wide measuring range
Several types transducer
for selection, measuring pipe
size from DN15mm to DN6000mm
- Compact
Size: 210×90×30mm
weight: only 0.5kg
- Long battery life
Built-in rechargeable
Ni-MH battery, over 12 hours
of continuous operation
- 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



The LR-2K ultrasonic flow meter has been upgraded based on the previous ultrasonic flow meter which is still the main product line of the company. The new Version retains most of the excellent features and functions of the previous versions: the pulse measurement technology, the ultrasonic igniting and the small signal receiving circuits etc. The main improvements are made on the battery supply circuit and on the transmitting circuits. All other circuits are simply integrated into this new version without major modifications, due to the fact that we have already applied the most advanced measurement technologies and attained a more reliable model of ultrasonic flow meter. It employs a patent balanced lower voltage multi-pulse igniting circuit which increases the anti-interference ability magnificently so that the flow meter will work properly even in demanding industrial environments such as those with power frequency transverter working nearby.



ECOLine LR-2K

Items	Specification
Linearity	0.5%
Repeatability	0.2%
Accuracy	Better than $\pm 1\%$ for velocity above 0.03 m/s
Response Time	0-999 second, user-configurable
Flow Range	± 3.2 m/s
Measuring Pipe Size	15mm ~ 6000mm
Units	English (U.S.) or metric
Totalizer	7-digit totalizer for net, positive and negative flow respectively
Liquid Types	Any single uniform liquid which can transmit ultrasonic
Security	Setup values Modification Lockout. Access code needs unlocking
Display	4 x 16 letters
Communication Interface	RS-232 interface. 7.5-57600 bps, compatible with Fuji ultrasonic flowmeter and other UFM on enquiry.
Transducers	Model TM-1 for standard, other 4 models for optional
Transducer Cable	Standard 5m x 2 or can be extended to 10m x 2
Power Supply	3 AAA built-in Ni-MH batteries (for over 12 hours of operation). 100V-240VAC adapter
Data Logger	Built-in data logger can store over 2000 lines of data



Standard configuration

Manual Totalizer	7 digit, calibrating by key					
Housing Material	ABS					
Size	210 x 90 x 30 mm					
Handset Weight	500g (include battery)					
		Main Unit	Medium transducer TM-1	Signal Cable	Adapter	Carrying case
		Stretcher	Tape ruler	Data line	User Manual	Ultrasonic coupling agent

Optional Transducer

Small size transducer TS-2 (Magnetic) DN15 ~ DN100mm -40°C ~ 110°C	Medium size transducer TM-1 (Magnetic) DN50 ~ DN1000mm -40°C ~ 110°C	Large size transducer TL-1 (Magnetic) DN300 ~ DN6000mm -40°C ~ 110°C
High-temperature small size transducer HTS-1 DN15 ~ DN100mm -40°C ~ 160°C	High-temperature medium size transducer HTM-1 DN50 ~ DN1000mm -40°C ~ 160°C	

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