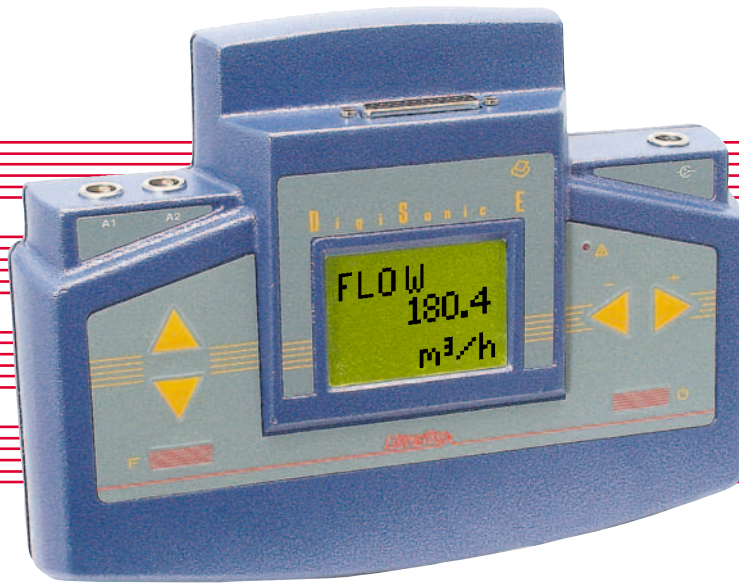


# Ultrasonic portable flowmeter



## **DIGISONIC® E+** for field survey work – Pipe sizes from DN 8 mm to DN 5000 mm\*

*\* For larger, please consult us*

- ✓ clamp-on probes
- ✓ fast & easy to install
- ✓ no maintenance
- ✓ echo display (helpful for diagnostics)
- ✓ data acquisition
- ✓ high accuracy
- ✓ ergonomically designed
- ✓ user friendly
- ✓ sturdy
- ✓ cost effective

### Advantages

- no contact with the fluid
- no shut down of the process
- no moving parts, no pressure drop
- thickness measurement, temperature & calorific value measurement (options)
- compatible with all our insertion probes

### Applications

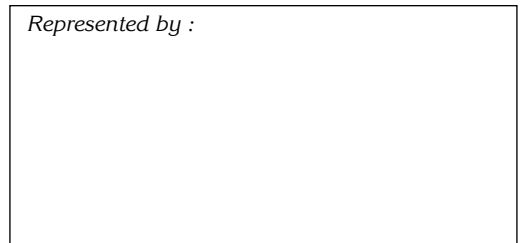
- most liquids (water, chemical & petrochemical products, foodstuffs ...)
- most pipe materials (stainless steel, steel, copper glass, PVC, cast iron ...) irrespective of lining
- flow speed from a few mm/s to more than 10 m/s



**Ultrasonic Measurements**



Represented by :



## PRINCIPLE

DigiSonic E+ is based on the ultrasonic transit-time principle.

## SPECIFICATION

DigiSonic E+ is used for help in diagnostic, network management, counting, checking installed flowmeters, process regulation ...

- Resolution time measurement : 0.1 ns
- Typical accuracy :
  - $V \geq 0.5 \text{ m/s}$  : +/- 1% of reading
  - $V < 0.5 \text{ m/s}$  : +/- 0.5 cm/sin the case of a fully developed flow and if ID  $\geq 200 \text{ mm}$
- Linearity : 0.1%, Repeatability : 0.2%
- Temperature stability : 500 ppm/°C
- Bidirectionnal measurement (+/-)
- Correction of viscosity and automatic correction of hydraulic coefficient ( $K_H$ )
- Measurements on liquids up to 200° C (for higher, please consult us)



## ELECTRICAL CHARACTERISTICS

- Power supply :
  - Rechargeable battery Ni-Cd – up to 8 hr battery life
  - External power source (220 V or 110 V) used as a charger
  - Cable for any DC source from 12 to 50 V (option)
- Output 0-4-20 mA – galvanic isolated
- Programmable static relays (x2)
  - 100 V – 100 mA – 10 VA max.

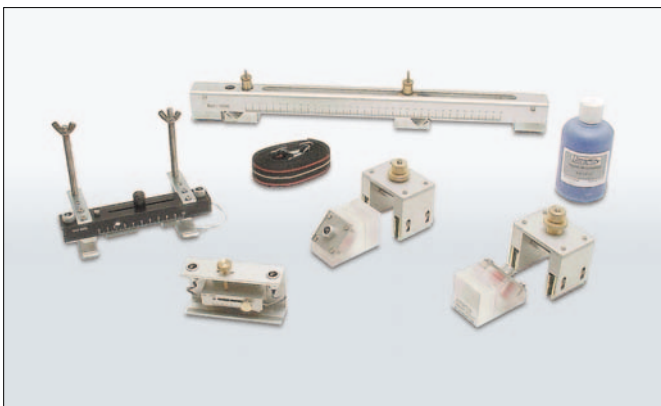


## DISPLAY

- Numerical & graphical display
- LCD screen (with backlighting)

## RESOURCES

- Quick & easy calibration by keyboard (drop down menu) - Flowrate in different units ( $\text{m}^3/\text{h}$ , l/h,  $\text{m}^3/\text{s}$ ...)
- Oscilloscope function : help for diagnostics & probes positioning
- Output signals, (DB 25) :
  - 0-4-20 mA galvanic isolated
  - Relays (x2) : flow direction, threshold, volume, fault, ...
  - Serial RS 232 – JBUS protocol
- Setting – Programming : data logger with near to 200,000 date, time, flow & other readings
- 17 password protected site setups can be stored in memory
- Language choice : French, English, German, Spanish, Italian ...



## MECHANICAL CHARACTERISTICS

- Cabinet : cast aluminium + epoxy painting
- Weight : 2.6 Kg
- Dimensions : 246 x 188 x 70 mm (L x H x P)
- Protection : IP 65
- Ambient temperature : -25°C to +50°C (converter)
- Fitted case : 415 x 330 x 200 mm (L x H x P) for electronic converter, probes & accessories (belts, cables, coupling gel)

## OPTIONS :

- Windows compatible communication software : logger conversion into data file compatible with standard software (excel ...)
- Ultrasonic (numerical & graphical) wall thickness measurement
- Temperature & calorific value measurement

