

AQUA DATA SENSA

RC2 WATER VELOCITY METER



The SENA RC2 Water Velocity Meter uses the Faraday principle of electro-magnetic induction, coupled with the latest innovative technology to offer a proven and successful measurement of water velocities with exceptional and permanent high performance characteristics.

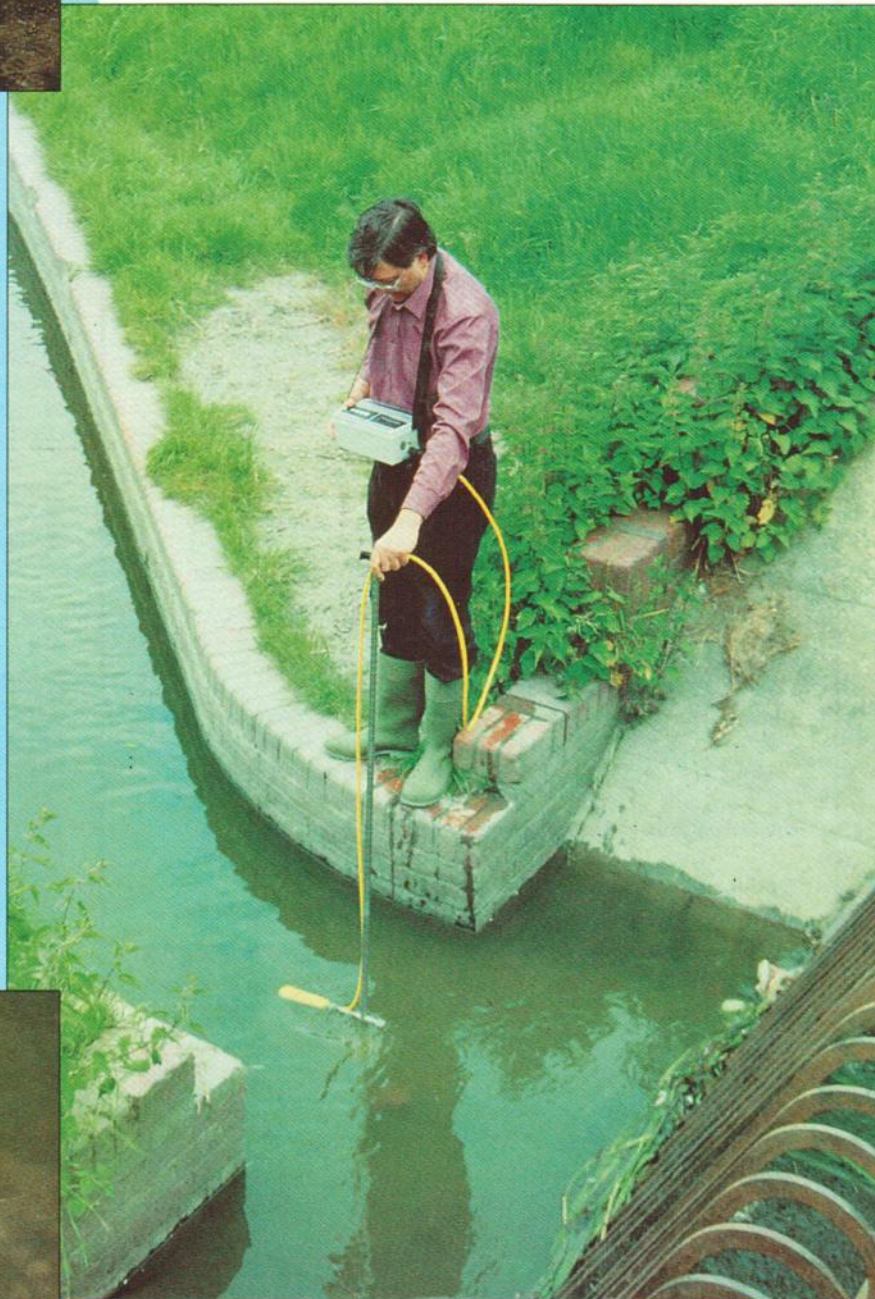
The enormous advantages of the SENA RC2, compared with existing conventional rotating element and ultrasonic type velocity meters, are already being experienced by users around the world.

The major benefits include:

- Wider measurement range from genuine zero to 4.0m/sec
- Inherently bi-directional, with indication of reverse flow
- Exceptional high sensitivity, ideal for measurement in very shallow and sluggish flows



- Equally accurate in clean or dirty water
- Robust and smaller probe permitting measurement close to fluid surface and channel bed or pipeline wall
- Unaffected by temperature variations and changes in density and suspended sediment



- Unique probe design for low vulnerability to fouling by weeds in rivers or ragging up in sewers
- No moving parts and maintenance free
- Calibrated for life in a NAMAS approved laboratory
- Improved overall accuracy $\pm 0.5\%$ of reading
- Can be used in any conductive fluid i.e. beer, milk, foodstuffs etc.

Sensa RC2

Specifications

Control Unit

Polycarbonate case, LCD display and operating key pad, with a choice of four languages (English, French, German or Spanish).

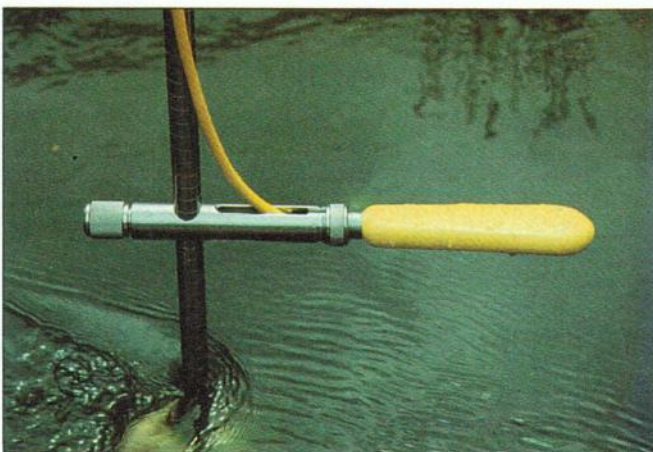
RS 232 output and in-situ battery charging connections. User selectable Manual or Auto modes, offering continuous or averaged readings over eight different time intervals as standard.

Velocity Range	Calibrated from 0.000m/sec to 4.000m/sec with automatic indication of flow reversal	
Resolution	Velocity Range	Resolution
	0.000 - 4.000m/sec	0.001 - 0.02m/sec
Averaging Intervals	2,5,10,15,20,30,50,60 seconds as standard (other intervals available optionally)	
Accuracy	± 0.5% ± 5mm/sec	
Zero Stability	± 5mm/sec	
Power Supply	10 x C size batteries giving up to 36 hours continuous operation.	
Dimensions	H 105mm x D 140mm x W 225mm	
Weight	2.02 Kg (or 4.5lb) with batteries	
Environmental	Sealed to IP67 Operating temperature -5C to +40C Storage temperature -20C to +50C	
Options Available	Rechargeable batteries Battery charging unit	

Velocity Probes

Hydrodynamically shaped and moulded in bright coloured epoxy resin, with titanium electrodes 3m long cable and plug to surface unit, as standard. Resistant to most impurities found in measured fluids.

Sampling Rate & Calibration	All probes are calibrated for life, with a sampling rate of every 0.5 second (following initial setting time)
Dimensions	RV2 - L 185mm x W 50mm x H 20mm RV4 - L 140mm x W 30mm x H 15mm
Weight	RV2 - 0.22 Kg (without cable and plug) RV4 - 0.10 Kg (without cable and plug)
Environmental	Fluid Temperature -5C to +70C Storage Temperature -20C to +70C
Options	Longer built in cable with probe. Extension cables from probe to the surface unit.



Accessories for SENSA RC2

- * Standard Wading Rod Kit
- * Universal clamp
- * Attachments for sewer & conduit use
- * Hard top carry case
- * Field type soft canvas carry case
- * Extra rods
- * Purpose made implements by request

The SENSA RC2 is used with a unique Straight Clamp which has been designed so that the probe can be operated completely 'tools free', thus making it ideal for harsh environmental use. There is the option of a Universal Clamp with adjustable angles to enable use in the most inaccessible locations.

The unit is supplied in a durable, but lightweight carry case containing all you require for easy operation. It will also hold the plugs and connectors for the optional RS 232 mode and battery charger.

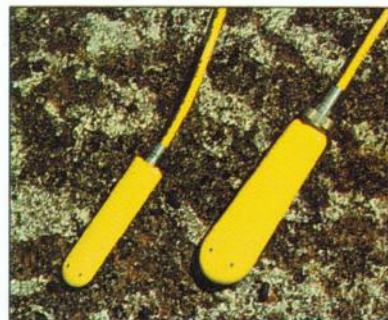
The optional RWK Wading Rod Kit fits neatly in, ensuring simple and convenient field use.

The RWK Kit comprises of:
6 x 500mm S/Steel rods
Circular footplate
Straight clamp
Directional handle



Sensa RV4 "Mini" Probe

The new RV4 "Mini" Probe is a welcome addition to the SENSA product range. Using the latest surface mount technology we have reduced the size of the probe by half. This enables measurement in



SENSA - RV4 "Mini" Probe and SENSA - RV2

smaller pipes and more shallow flows with the added benefit of less disturbance in the flow.

The extra applications for this "Mini" Probe could include:

- * Micro Measurement
- * Fluvial Biology
- * Hydraulic Modelling
- * Multi-gauging

Other Models

Several other products are available or under development, offering various combinations of features including:

- * Data logging and unattended operation
- * Multiprobe installations
- * 1, 2 and 3 axis probes
- * Integral depth sensors for open channel flow calculation
- * Insertion probes for full pipe measurement
- * Flow measurement in boreholes

Please contact us to discuss your specific requirements.

Aqua Data Ltd.

The John Galt Building
A40 Old Witney Road
Eynsham
Oxon
OX29 4PU
Telephone: (01865)236030

www.aqua-data.com