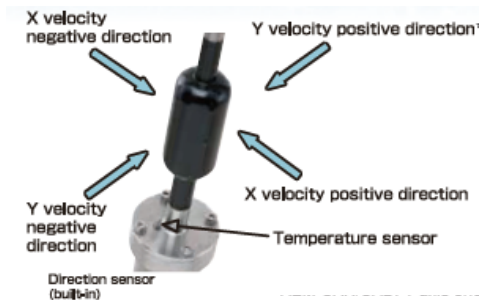


## INFINITY-EM

### Electro-Magnetic Current Meter



- High-speed communication
- Compact, robust and portable
- Ideal for clear water
- Audible Operation verification
- Easy Software



The INFINITY-EM is a compact, light-weight electromagnetic current meter. The electromagnetic velocity sensor is a time-proven velocity sensor and allows for accurate measurements in a range of current. It is ideal for use in clear, low scattering water where Acoustic Doppler sensors aren't suitable.

#### Sensor Specifications:

	Velocity	Direction	Temperature
<b>Principle</b>	2-D electromagnetic velocity sensor	Hole element	Thermistor
<b>Range</b>	0 to $\pm 500$ cm s <sup>-1</sup>	0 to 360°	-3 to 45 °C
<b>Resolution</b>	0.02 cm s <sup>-1</sup>	0.01°	0.001 °C
<b>Accuracy</b>	* $\pm 1$ cm s <sup>-1</sup> or $\pm 2\%$ (0 to $\pm 60$ cm s <sup>-1</sup> )	$\pm 2^\circ$	$\pm 0.02$ °C (3 to 31 °C)

#### Instrument

	AEM-USB	AEM-CAR/CAD
Model	AEM-USB	AEM-CAR/CAD
Memory medium	1 GB miniSD card	—
Battery	2x CR-V3 3.3 Ah Lithium battery	—
Voltage	—	DC 12 to 24 V
Communication	USB 2.0 (ver 1.1 compatible)	CAR: RS-232C, CAD: RS-485
A/D converter	16 bit digital conversion	16 bit digital conversion
Power	90 mA	50 mA
Dimensions	$\Phi 42$ (Flange area: $\Phi 54$ mm) $\times$ 455 mm	$\Phi 42$ (Flange area: $\Phi 54$ mm) $\times$ 381 mm (excl. cable)
Weight	Approx. 1.0 kg in air, 0.6 kg in water	Approx. 1.0 kg in air, 0.8 kg in water (excl. cable)
Depth rating	1,000 m depth equivalent	1,000 m depth equivalent
Materials	Titanium (grade 2)	Titanium (grade 2)

A Deep water version suitable for 6000 depth is also available

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