## **Electro-magnetic current meter**

# AEM-USB/CAR/CAD



On the fly current measurement

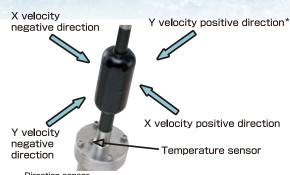




JFE Advantech Co., Ltd.



# AEM-USB/CAR/CAD



#### ■ Description

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 different kind of streams (from weak to strong flows).

\*AEM-CAR/CAD: Y axis orientation is the opposite of the direction shown in the picture.

#### **■** Sensor specifications

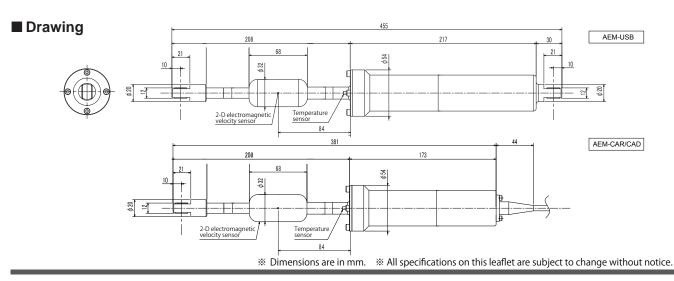
(built-in)

Model	AEM-USB/CAR/CAD		
Parameter	Velocity	Direction	Temperature
Principle	2-D electromagnetic velocity sensor	Hole element	Thermistor
Range	0 to ±500 cm s <sup>-1</sup>	0 to 360°	-3 to 45 °C
Resolution	0.02 cm s <sup>-1</sup>	0.01°	0.001 °C
Accuracy	*±1 cm s <sup>-1</sup> or ±2% (0 to ±60 cm s <sup>-1</sup> )	±2°	±0.02 °C (3 to 31 °C)

<sup>\*</sup>AEM-CAR/CAD: ±1 cm s<sup>-1</sup> or ±2% (0 to ±100 cm s<sup>-1</sup>)

■ Instrument specifications

	Data logger	Cable type	
Model	AEM-USB	AEM-CAR/CAD	
Memory medium	1 GB miniSD card	_	
Battery	CR-V3 3.3 Ah Lithium battery (maximum 2 batteries)	_	
Operating 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		
Power consumption	90 mA	50 mA	
Dimensions	Ф42 (Flange area: Ф54 mm) × 455 mm	Φ42 (Flange area: Φ54 mm) × 381 mm (connector & cable not included)	
Weight	Approx. 1.0 kg in air, 0.6 kg in water	Approx. 1.0 kg in air, 0.8 kg in water (connector & cable not included)	
Depth rating	1,000 m depth equivalent		
Materials	Titanium (grade 2)		





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