

# Handheld 2-D electro-magnetic current meter

# AEM213-DA

ISO9001



JQA0950

Easy field temperature and velocity measurements



- Depth sensor for desired depth measurement
- Robust design (no moving mechanical parts)
- Temperature sensor to track water structures
- Real time data reading (interface unit)



JFE Advantech Co., Ltd.

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AEM213-DA

## ■ Description

AEM213-DA electro-magnetic current meter with a display unit can provide the 2-D current speeds in real time. The instrument has a depth and a temperature sensor as well as the current sensor, enabling reliable current measurements at the desired depths. The compact and light-weight unit is easily portable, allowing you to use the instrument in a variety of situations.

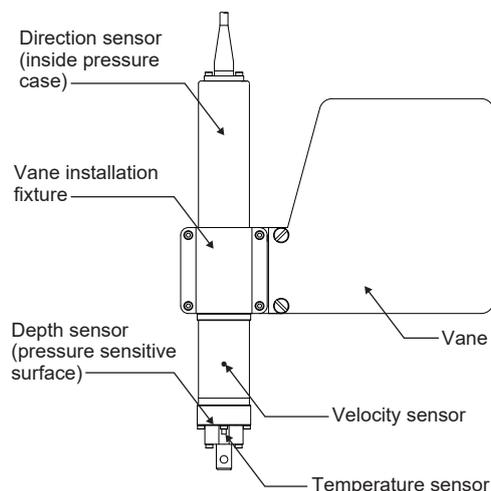
AEM213-DA has a display unit with a flash memory. The observed data are shown in the display and then saved in the memory simultaneously. The data can be easily downloaded from the unit to a personal computer using a communication cable. The battery is a size C alkaline battery, allowing surveys for up to 10 hours.

## ■ Built-in Sensor specifications

Parameter	Principle	Measurement range	Resolution	Accuracy
Velocity	Electromagnetic induction	0 to $\pm 250\text{cm s}^{-1}$	$0.1\text{cm s}^{-1}$	$\pm 1\text{cm s}^{-1}$ or $\pm 2\%$ (0 to $\pm 50\text{cm s}^{-1}$ )
Direction	Hole element compass	0 to $360^\circ$	$0.1^\circ$	$\pm 2^\circ$
Depth	Semiconductor	0 to 50m	0.01m	Repeatability $\pm 0.3\%$ FS Nonlinearity $\pm 0.1\%$ FS
Temperature	Thermistor	-3 to $40^\circ\text{C}$	$0.01^\circ\text{C}$	$\pm 0.02^\circ\text{C}$ (3 to $31^\circ\text{C}$ )

## ■ Sensor Probe Specifications

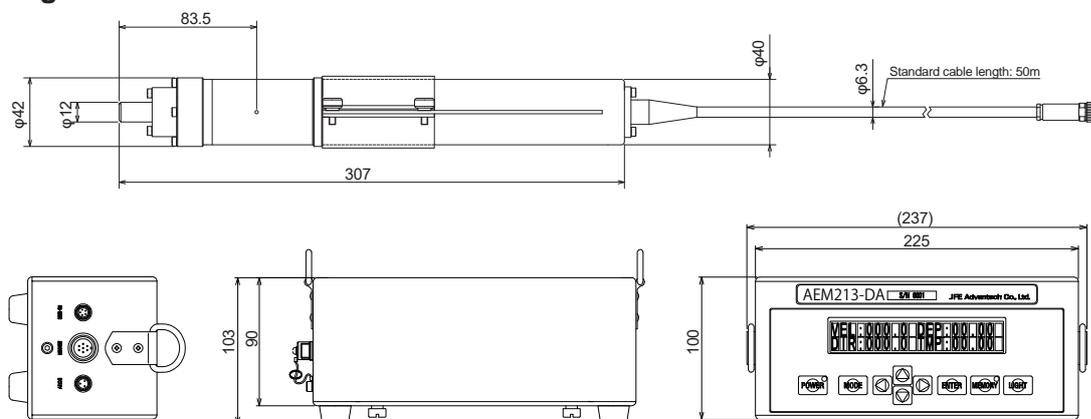
Cable length	Cable reinforced with Kevlar® fiber (Φ6.1mm, standard length: 50m)
Dimensions	Φ42mm×307mm
Material	Titanium (grade 2)
Weight	Approx. 1.0kg in air (excluding vane), 0.65kg in water (excluding vane)
Depth rating	200m depth equivalent



## ■ Display Unit Specifications

Display parameters	Direction, velocity, temperature, depth
Memory medium	2MB flash memory, approx. 180,000 data sets
Power	Size C dry alkaline battery (Qty 4) (for approx. 10 hours of use), AC100V, DC12V
Material	ABS resin
Waterproof characteristic	IPX5 class equivalent
Dimensions	W225mm×H90mm×D100mm
Weight	Approx. 1.1kg (including batteries)

## ■ Drawing



※ Dimensions are in mm. ※ All specifications on this leaflet are subject to change without notice.



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