

Light intensity sensor

COMPACT-LW

ALW-CMP/
RS/Di

ISO9001



JQA0950

For long-term deployment



- Suitable for coastal environment monitoring
- For PAR measurement applications
- Logger or digital output version
- Tidal analysis software available (optional)



JFE Advantech Co., Ltd.

COMPACT-LW

ALW-CMP/RS/Di

■ Description

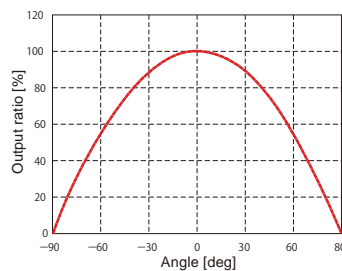
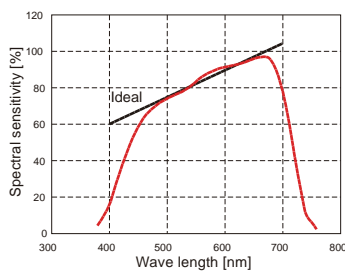
COMPACT-LW is an autonomous deployable data logger for PAR (Photosynthetic Available Radiation: 400 to 700nm) measurements. The instrument has a wiper to inhibit biological growths on the optical window over the deployment period. It has a cosine collector as the PAR sensor. The cosine and filter characteristics of the sensor are ideal for PAR measurement.

Two versions of the COMPACT-LW are available. ALW-CMP, the autonomous deployable data logger version that comes with internal battery and memory (miniSD card), and the other, ALW-RS/Di, the digital output version (RS: RS-232C, Di: RS-485).

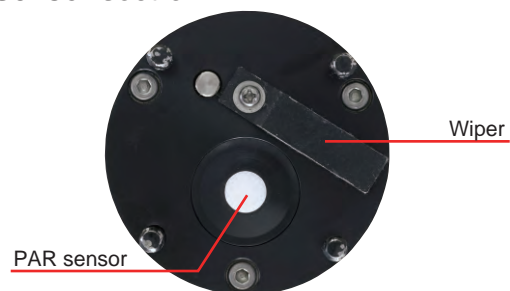
■ Specifications

Parameter	PAR
Principle	Photodiode
Range	0 to 5,000 $\mu\text{mol m}^{-2} \text{s}^{-1}$
Time constant	0.1 s
Accuracy	$\pm 4\%$ FS (0-2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$)
Resolution	0.1 $\mu\text{mol m}^{-2} \text{s}^{-1}$
Memory medium	2MB flash memory
Data capacity	179,178 data sets
AD converter	16 bit digital conversion
Measuring mode	Continuous mode, Burst mode
Measuring interval	0.5, 1, 2, 5, 10, 15, 20, 30 s
Burst sampling interval	1 to 1,440 min (1 min increment)
No. of samples	1, 10, 15, 20, 30, 60, 120, 180, 240, 300, 600, 1,200
Battery	Lithium battery (14Ah)
Current consumption	35mA
Housing material	Titanium (grade 2)
Dimensions	$\Phi 69\text{mm} \times 174\text{mm}$
Weight	Approx. 1.0kg in air, 0.5kg in water
Depth rating	200m depth equivalent

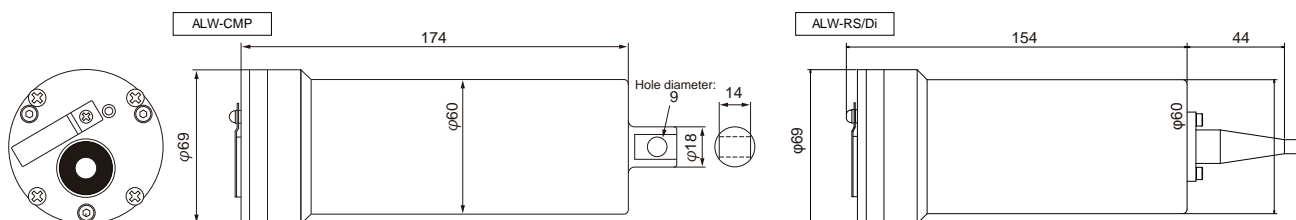
■ Cosine and filter characteristics



■ Sensor section



■ Drawing



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

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