

# Specification Sheet of Hydrophone

## Pipe-type Hydrophone

Acoustic measurement pipe with a built-in pre-amplifier (Length = 50cm)

Outside diameter: 48.6mm、(thickness = 3mm)

Quality of material: SUS304

Length of measurement: 50cm

Resonance frequency: around 4.5kHz

Unidirectional electret condenser microphone

- Impedance:  $600\ \Omega \pm 30\%$  (1 k Hz)

- Sensitivity:  $65.5\text{dB} \pm 4\text{dB}$  (1 k Hz)

- Pre-amplifier gain with a filter: x20

- Cable length: 20m

(with a waterproof connector)



Fig1. Pipe-type Hydrophone

## Plate-type Hydrophone

Acoustic measurement plate with a built-in hydrophone-unit

Plate size:  $50 \times 20\text{cm}$  (thickness = 12mm)

Quality of material: SUS304

Outer size:  $544 \times 274 \times 100\text{mm}$

Weight: 25kg

Unidirectional electret condenser microphone

- Impedance:  $600\ \Omega \pm 30\%$  (1 k Hz)

- Sensitivity  $65.5\text{dB} \pm 4\text{dB}$  (1 k Hz)

- Pre-amplifier gain with a filter: x20

- Cable length: 20m

(with a waterproof connector)



Fig2. Plate-type Hydrophone

Acoustic to running sand quantity converter (HT-HP5)

Bandpass filter 4.5kHz

First degree amplifier x10

Output Pulse: 10ch  
Analog: 4ch

Power source DC12V

Consumption current 40mA (Average)

Electric supply to pre-amplifier  $\pm 5\text{V}$



Fig3. Converter