

## IMMERSION TYPE SENSOR WITH ULTRASONIC CLEANER

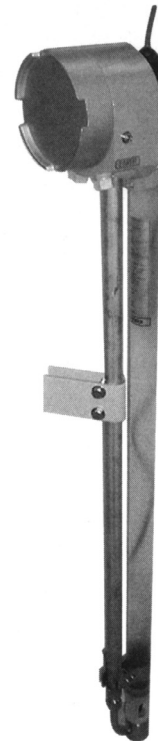
Model: UHC-7C

This sensor has an immersion type pH/ORP electrode holder combined with ultrasonic cleaner.

The sensing section of the electrode is continuously irradiated by ultrasonic waves and the resultant cavitation effect prevents fouling build-up. Maintenance work such as calibration with standard solutions can be easily carried out by simply detaching the electrode holder.

### STANDARD SPECIFICATIONS

<b>Product Name</b>	: Immersion type pH/ORP sensor with ultrasonic cleaner
<b>Model</b>	: UHC-7C
<b>Measurement Object</b>	: pH/ORP
<b>Cleaning Method</b>	: Continuous irradiation of ultrasonic waves
<b>Ultrasonic Frequency</b>	: 80kHz
<b>Ambient Temperature</b>	: 0~50°C
<b>Sample Conditions</b>	
<b>Temperature</b>	: -5~80°C (no freezing, temp range limited by holder type used)
<b>Pressure</b>	: Atmospheric
<b>Power Requirements</b>	: 100/110/115/220/240V AC±10%, 50/60Hz (An optional step-down transformer will be installed for power supplies other than 100V)
<b>Power Consumption</b>	: 15VA
<b>Wetted Materials</b>	: 316S.S., Viton, polypropylene (HC-763)
<b>Weight</b>	: 5kg
<b>Construction</b>	: Rainproof type (IP55)
<b>Paint colour</b>	: Metallic silver and blue
<b>Related Equipment</b>	: Model HDM Transmitter Model ZC-1 or ZC-2 Bracket Mounting flange (open flange) Model ZFK-1 or ZFK-2



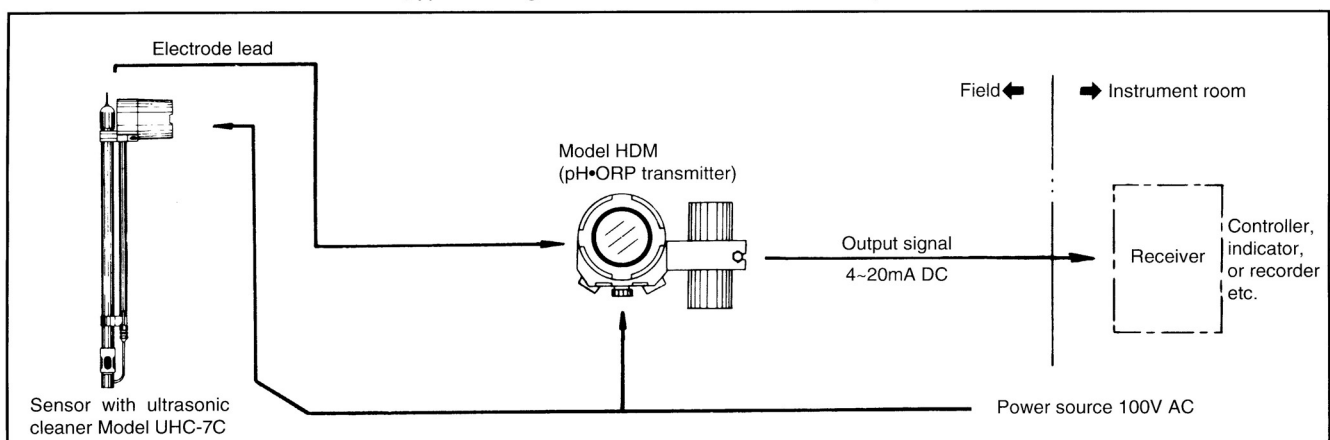
Sample temperature range for typical combination of holder and electrode

Holder	Holder material	Integrated pH electrode*		Integrated ORP electrode
		Model 5600	Model 5601	Model 2600
HC-703C	PVC	-5~60°C	—	-5~60°C
HC-763	Polypropylene	-5~70°C	-5~80°C	-5~70°C

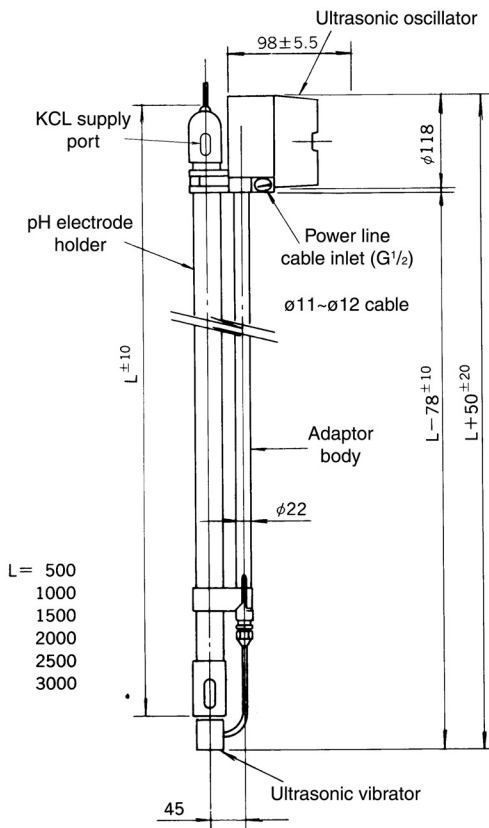
\*The resistance value of temperature compensation resistor is 10kΩ.

### SYSTEM CONFIGURATION

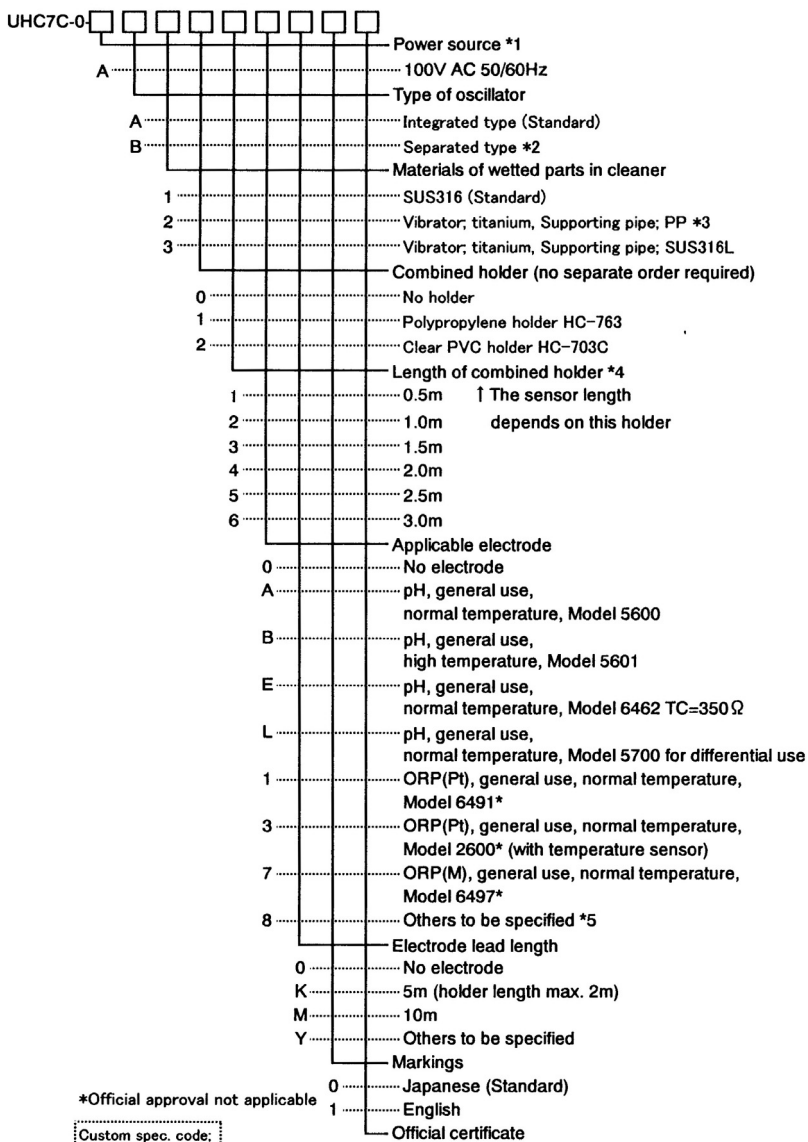
(Typical configuration with Model HDM transmitter)



**DIMENSIONS** Unit: mm



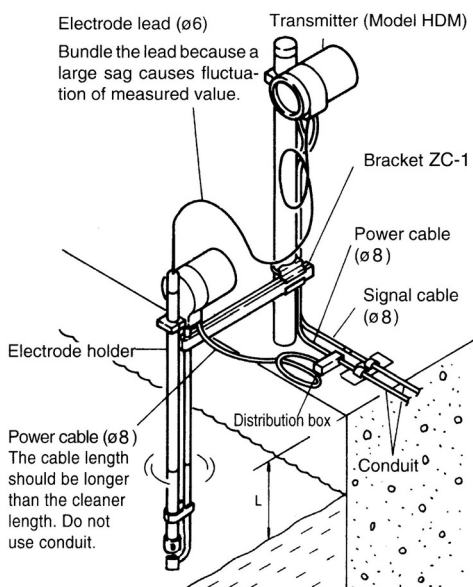
**PRODUCT CODE**



\*Official approval not applicable

Custom spec. code:  
 Numeric digit: 9  
 Alphabet: Z

**TYPICAL INSTALLATION**



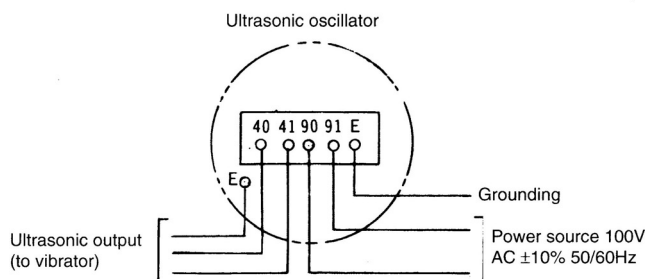
Bundle the lead because a large sag causes fluctuation of measured value.

The required length of electrode holder is L+(500-1000), where L: distance from the water surface <Note>

To be able to draw up the cleaner for its functional check, bundle the power cable by a length equivalent to the total length of the cleaner.

- \*1 Please separately order step down transformer (ZP:35VA) for power voltages other than 100V AC.
- \*2 A cable between oscillator and sensor (10m) is provided.
- \*3 For the Model with titanium vibrator and PP support pipe, the max. combination holder length is 2m. This is limited to the separation type oscillator.
- \*4 The max. length is 3m for the holder made of PP, and 4m for the holder made of clear PVC. For a requirement exceeding 4m, the drop-in type holder meets.
- \*5 In the case of NOS electrode (Model 5910 etc.), specify code 9(custom spec.) <Note>
- 1 Max. sample temperature is 80°C for PP holder (Model HC-763) and 60°C for clear PVC holder (Model HC-703C)
- 2 For mounting the sensor, order bracket (ZC-1 or ZC-2) and flange (ZFK-1 or ZFK-2).
- 3 When a pressure type holder is combined with sensor, specify code 0 "No holder" for combined holder and specify code 0 "No electrode" for applicable electrode, and separately order a pressure type holder.

**TERMINAL CONNECTIONS**



## DKK-TOA CORPORATION

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## CAUTION

Do not operate products before consulting instruction manual.

<http://www.toadkk.co.jp>

Information and specifications are for a typical system and are subject to change without notice.