

SPECIFICATION SHEET



IMMERSION TYPE pH/ORP SENSOR WITH ULTRASONIC CLEANER

UHC-7C

This sensor is a immersion type pH/ORP electrode holder combined with ultrasonic cleaner.

The sensing section of the electrode is continuously irradiated by ultrasonic waves and the 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

Product Name : Immersion type pH/ORP sensor with ultrasonic cleaner
 Model : UHC-7C
 Measurement Object : pH/ORP
 Cleaning Method : Continuous irradiation of ultrasonic waves
 Ultrasonic Frequency : Approx. 80kHz
 Ambient Temperature : -5 to 50 °C
 Sample Conditions
 Temperature : -5 to 80°C (no freezing. The range depends on the combined holder.)
 Pressure : Atmospheric
 Electric conductivity : 100µS/cm or more
 Power Requirements : 100V AC 50/60Hz
 Power Consumption : Approx. 15VA
 Wetted Materials : SUS316, fluororubber (FKM)
 Polypropylene (In the case of HC-763)
 Weight : Approx. 5kg
 Construction : Rainproof type (IP55)
 Paint colour : Metallic silver and blue
 Combination : Mounting bracket
 equipment : ZC-1 or ZC-2
 Mounting flange (open flange)
 ZFK-1 or ZFK-2

Sample temperature for typical combination of holder and electrode

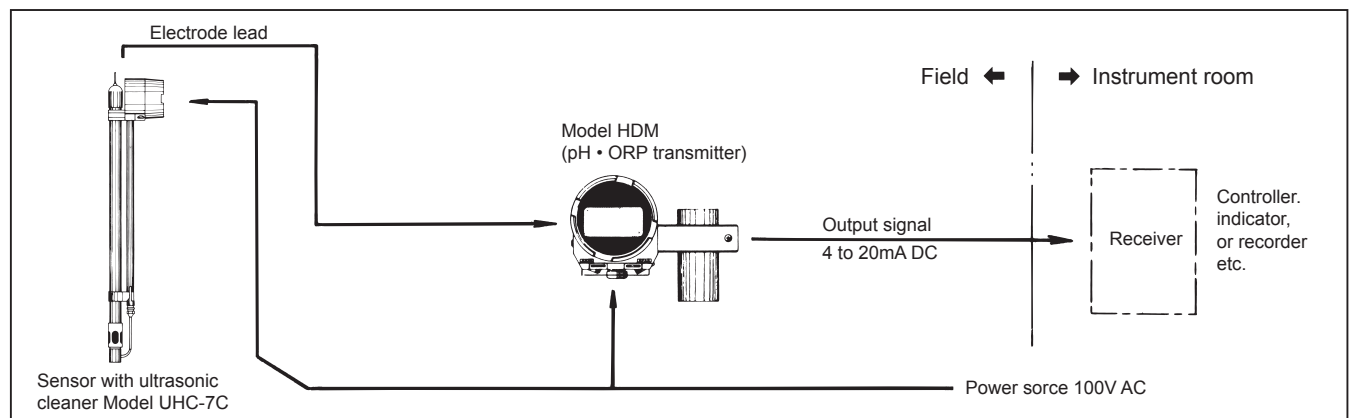
Holder	Holder material	Integrated pH electrode*		Integrated ORP electrode
		Model 5600	Model 5601	
HC-703C	PVC	-5 to 60°C	—	-5 to 60°C
HC-763	Polypropylene	-5 to 70°C	-5 to 80°C	-5 to 70°C

Note. The sensing tip is always cleaned by ultrasonic cleaner. In the case of ORP electrode, ultrasonic cleaner affects the measurement value.

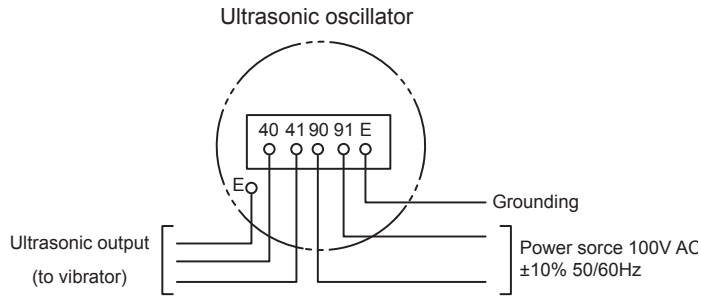
Especially in the case of ORP control under sewerage/wastewater treatment, this possibility is high. In this conditions, PHC-7D Pulse Air Jet Cleaner is recommended.

Configuration

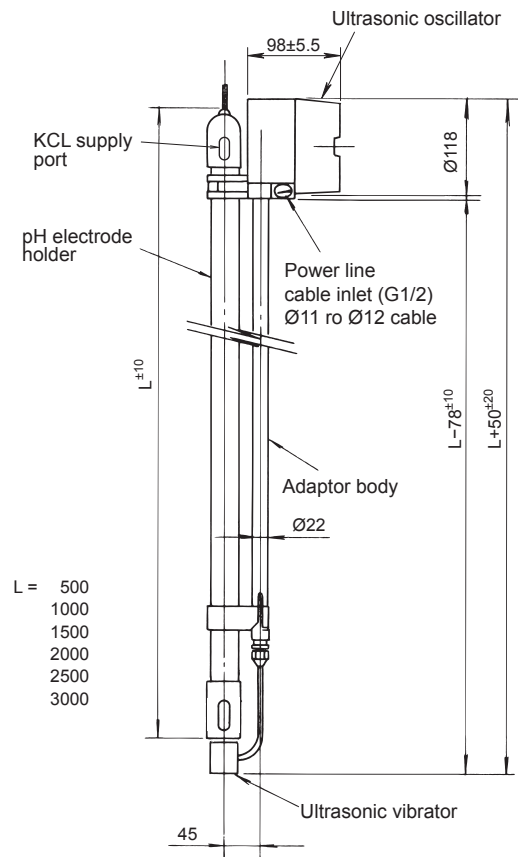
(Typical configuration with Model HDM transmitter)



Terminal Connections



Dimensions Unit : mm

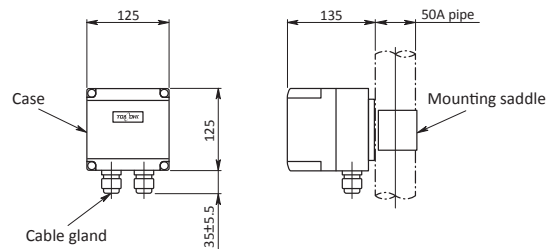


■ Voltage transformer unit (step-down transformer)

The following step-down transformer is required when a power supply voltage of more than 100VAC is applied to the cleaner-equipped detector:

- Model : ZP-30 (installed on-site)
- Primary voltage : 240/220/200/120/115/110VAC
- Secondary voltage : 100VAC
- Capacity : 35/140/500VA
- Cable port : 2 cable glands for a ø6 - 12 cable
- Case material/construction : Polycarbonate, IP65
- Mounting : Mounted on a 50A pole

Unit : mm



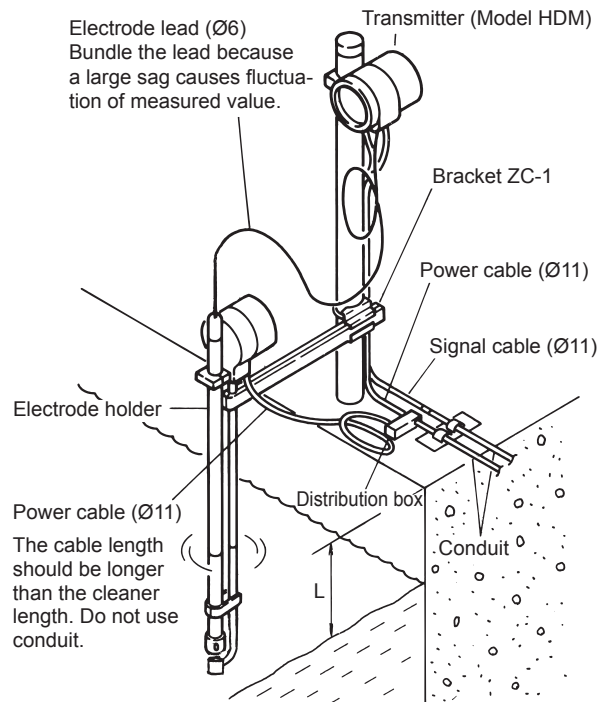
Product code

UHC7C-2-	□	□	□	□	□	□	□	□	□	□	
	A										Power supply*1 100VAC 50/60Hz
	A										Type of oscillator Integrated type (standard)
	B										Separated type*2
											Wetted part materials in cleaning part
										1	SUS316 (standard)
										2	Vibrator, titanium, supporting pipe (PP) *3
										3	Vibrator, titanium, supporting pipe; SUS316L
										0	Combined holder (no separate order required)
										0	No holder
										1	Polypropylene (PP) holder: HC-763
										2	Clear PVC holder: HC-703C
											Length of combined holder*4
										1	0.5m ↑The sensor length depends on this holder
										2	1.0m
										3	1.5m
										4	2.0m
										5	2.5m
										6	3.0m
											Electrode to be combined
										0	No electrode
										A	pH, general use, normal temperature 5600
										B	pH, general use, high temperature 5601
										3	ORP(Pt), general use, high temperature 2600★
										8	Custom spec *5
											Electrode lead length
										0	No electrode
										K	5m (holder length 2m or less)
										M	10m
											Surface finish (painting)*6
										A	Standard painting
										B	Heavy-duty Anti-corrosion painting
											Arrester*7
										0	Nil
										1	Equipped
											Markings
										0	Japanese
										1	English

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

- *1. Please separately order step down transformer (ZP-30 for 35VA) in the case power supply is higher than 100V.
- *2. When oscillator is separated, cable (12Ø 10m, from oscillator to a detector) is supplied (including holder length).
- *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 made of clear PVC. For a requirement exceeding 4m, the drop-in type holder of NOS-electrode (KCl-non supply, customs. Spec) is applicable.
- *5. If you consider using old type electrode (6462 or 5700), please notice us.
- *6. Standard painting of oscillator: primer and topcoat-melamine resin, average film thickness - 30µm or greater.
Anti-corrosion painting: primer and middle coat-epoxy resin, top coat-polyurethane resin, average film thickness - 100 µm or greater.
- *7. Ceramic surge arrester (easy type) is attached to power supply line.

Typical Installation



The required length of electrode holder is $L + (500 \text{ to } 1000)$, 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.



DKK-TOA CORPORATION



CAUTION

Please read the operation manual carefully before using products.

Overseas Sales Division:
DKK-TOA Corporation
29-10, 1-Chome, Takadanobaba, Shinjuku-ku,
Tokyo 169-8648 Japan
Tel : +81-3-3202-0225 Fax : +81-3-3202-5685