

Model: HBM-50

# pH Analyzer for Water Treatment

## pH Transmitter/Controller



#### **Features**

- CE marked compact analyzer.
- 48×48 DIN size & extremely compact body.
- Free voltage of 100 ~ 230V AC available.
- Low power consumption of approx. 5VA.
- Memory backup function.
- Single action calibration with immersion of electrode into std. solution.
- Detection function for cracks on electrode.
- Transmission output adjustable for specified pH range (0 ~ 14pH).

## **Specifications**

Product Name	: pH Transmitter/Controller	
Model	: HBM-50	
Meas. Object	: pH within solution	
Linearity	: Within +/-0.03pH	
Repeatability	: Within +/-0.02pH at equivalent	
	electric potential input	
Output Signal;		
Transmission Output: 4	ssion Output: 4 ~ 20mA DC	
Resistive Load	: Max. 600	
Alarm Output Signal	: 2 Circuits, 250V AC, 1A	
Transmission	: Setting adjustable between	
Output Range	0 ~ 14pH, increases at 1pH	
	unit for ranges above 2pH band	
Calibration with	: 2 Point calibration with pH Std.	
Standard Solution	solution. Select 2 types from;	
	pH1.68/4.01/6.86/9.18/10.01	

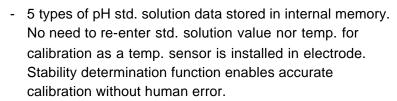
Ambient Temp.	: -5 ~ 50
Ambient Humidity	: 90% RH
Power Source	: 100 ~ 230V AC, 50/60Hz
Power Consumption	: Approx. 5VA
Size; (W) $\times$ (H) $\times$ (D)	: 48 × 48 × 105 (mm)
Mounting Method	: Panel Mount Type,
	Panel Cut-out; 45 x 45mm,
	Panel; Max. 4.00mm thick
Weight	: 0.2kg
Weight Combined Electrode	: 0.2kg : ELP-001/
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	: ELP-001/
	: ELP-001/ EL5600-1- G (for general
	: ELP-001/ EL5600-1- G (for general use, immersion type)/
	: ELP-001/ EL5600-1- G (for general use, immersion type)/ EL5610-1- G /











- Transmitter judges electrode quality from potential characteristics during calibration with std. solution.
- Detection function for cracks on electrode.
- Transmission output range can be freely set.
- LCD ST-BY blinks & transmission output is held at most recent value during maintenance mode. Control output contact is set at OFF not to disturb control system. Auto return function to meas. mode available. When combined with chemical cleaner, transmission output from cleaner is set according to previous data.
- Double circuit control contact point enables free setting against pH meas. range. Control sensitivity setting can be freely set. 4 circuit control contact point available for optional use.
- Power supply of cleaners without timer function such as BHC-7E/JHC-7E.



## **Specifications**

Product Name	: pH Transmitter/Controller	
Model	: HBM-100A	
Meas. Object	: pH within solution	
Meas. Range (*No transmission output for mV nor temp.)		
рН	: -1.00~15.00pH	
	(Resolution; 0.01pH)	
mV	: -600 ~ +600mV (Resolution; 1mV)	
Temp.	: 0 ~ 100 (Resolution; 0.1 )	
Linearity	: Within +/-0.03pH	
Repeatability	: Within +/-0.02pH	
Transmission	: Isolated, 4 ~ 20mA DC,	
Output Range	resistive load; Max. 600	
Control Points	: 2 points, "a" contact point,	
	4a contact points as option	
Contact Point Capacity: 250V AC, below 3A (resistive load		
Control Sensitivity	: Free setting (std.; 2a), 0.01 $^{\sim}$ 2.0pH	

	Processing	: Microcomputer
	Ambient Temp.	: -10 ~ 50 , below 95% RH
	Power Source	: 90 ~ 264V AC, 50/60Hz
	Power Consumption	: Approx. 5VA
	Construction	: Indoor, panel mount type
	Dimensions	: 96(W)×96(H)×90(D)mm
	Panel Cut-out	: 92×92mm (DIN std.)
	Weight	: Approx. 0.5kg
	Combined Instruments:	
	Sensor;	
	pH Electrode	: ELP-001L/5600/5610 etc.
	ORP Electrode	: 2600/2610 etc.
	Junction Box	: EC10-4- (Option)
	Cable	: FC4-4- (Option)
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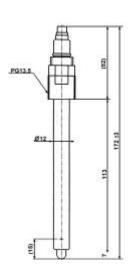


- Ease of maintenance attained with use of hard-to-break glass membrane.
- Compatible with other manufacture's transmitter with temperature compensation function which uses Pt 1000 temperature sensor.
- Water proof connector.

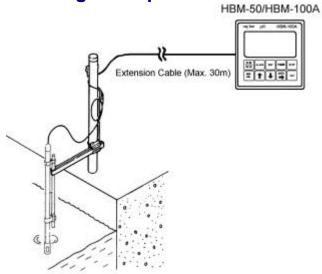
## **Specifications**

Product Name	: pH Electrode
Model	: ELP-001
Meas. Range	: 0 ~ 12pH
Operation Temp. Range: 0~50	
Operation	
Pressur Range	: 0 <sup>~</sup> 0.03MPa
Inner Solution for	
Reference Electrode	: Gelled KCI solution
Temperature Sensor	: PT1000
Inner Electrode	: Ag/AgCl

# **Dimentions** (Unit: mm)



# **Mounting Example**



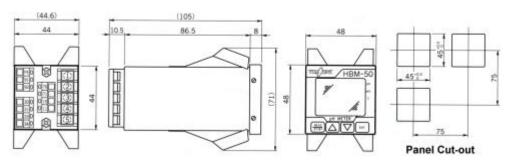




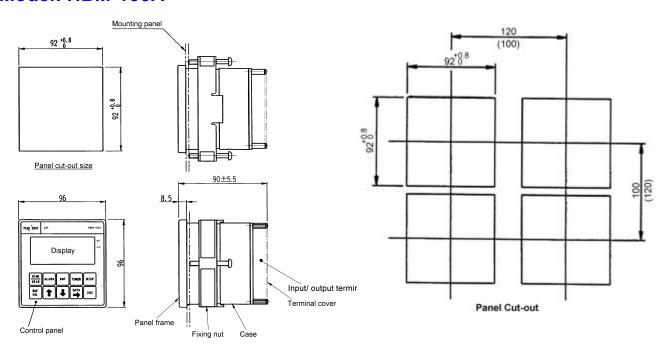


## **Dimentions** (Unit: mm)

### Model: HBM-50



### Model: HBM-100A



# **DKK-TOA CORPORATION**



Do not operate products before consulting instruction manual.

#### International Operations:

DKK-TOA Corporation

29-10, 1-Chome, Takadanobaba, Shinjuku-ku, Tokyo 169-8648 Japan Tel: +81-3-3202-0225 Fax: +81-3-3202-5685

#### Representative Office (Europe):

DKK-TOA European Representative

St. Johns Innovation Centre, Cowley Rd., Cambridge CB4 OWS UK. Tel: +44 |0|1223-526471 Fax: +44 |0|1223-709239