# SH7300A

#### pH(ORP) TRANSMITTER

## **SPEC-3122E**

THE SH7300 IS A MICROPROCESSOR BASED DIGITAL PH(ORP) TRANSMITTER PROVIDES DIGITAL FIELD INDICATOR WITH 2 WIRED 4-20mA OUTPUT AND 24VDC POWER INPUT.

- DUAL DISPLAY
- AUTOMATIC BUFFER CALIBRATION
- **EVENT OUTPUTS STANDARD**
- SIMPLE FRONT OPERATION
- SELF DIAGNOSTICS

#### **SPECIFICATIONS**

Input: Glass electrode (pH) with pre-amplifier or metal

electrode (ORP)

Range: 0.00-14.00pH or -1.500-1.500V (ORP)

Output: Programmable, 4pH in span min. 1pH increment

(0.1V at ORP)

Output: 4-20mA DC isolated, 2-wired, 550Ω max. Display: Process variable, temperature, 4 digit, LCD Linearity: ±0.03pH (±3mV) or ±0.3% whichever larger Repeatability: ±0.01pH (±1mV) or ±0.1% whichever larger

Buffer calibration: JIS standard buffer, auto-calibration Error detection: pH 0.00pH (-1.5V of ORP) and below, pH 14.0pH (1.5V of ORP) and above, temp. -25°C and below, temp. 150°C and above, electromotive force error at 7pH buffer solution and per pH, identification of error contents on the display

Temperature compensation: 0-100°C, Pt1000Ω at 0°C

(at 25°C by manual) temperature sensor **Temp. cable compensation:** Automatic

Key lock: Prevents set value from miss-resetting Buffer calibration: JIS standard buffer, auto-calibration Output hold: Programmable at process variable, alarm

contact and error detector

Shift readout: 0.01pH increments within ±1.5pH



Solution temp. compensation (option):

0.010-0.050pH/°C for high purity water

Operation conditions: -10 to 60°C, 5 to 95%RH

Power input voltage: 24±6VDC Cable conduit: G½ (PF½ female)

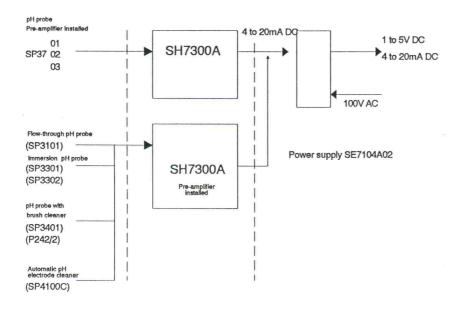
Case: Rain-proof equivalent to IP67 or NEMA4

Case color: Blue (Munsell 10B 5/10)
Mounting: 2<sup>B</sup> pipe or wall mount

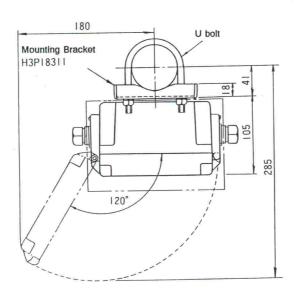
Material:

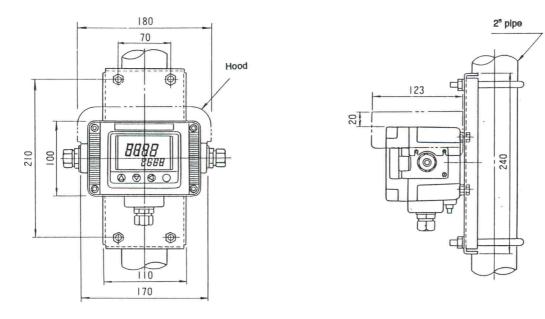
Case: aluminum casting Top sheet: Polyester Weight: Approx. 1.7 kg

#### PROBE & TRANSMITTER CONNECTION



#### **DIMENSIONS**

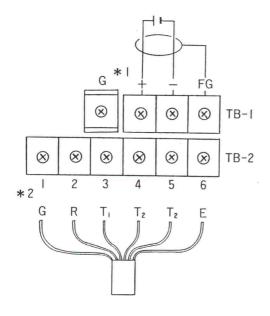




#### MODEL CODE NUMBER

MODEL	DESCRIPTION						
SH73	Digital pl	Digital pH (ORP) transmitter, dual display					
	CODE	INPUT					
	01A 02A 03A	ORP ele	Blass electrode DRP electrode H Metal electrode (Antimony), direct connection with P242/2				
		CODE	ODE PRE-AMPLIFIER				
				None Installed (Required in direct connections with P242/2, SP3101/3301/3302/3401/4100C)			
	COD		CODE	SOLUTION TEMPERATURE COMPENSATION			
	00 None 10 Installed						
				CODE	OPTION		
				N A B C	None Mounting Bracket Hood Mounting Bracket & Hood		
			,		CODE	сизтом	
					0	None Custom (Consult)	

### **TERMINAL ASSIGNMENT**



Note 1: To be connected to TB-1 G in case of preamplifier is installed in SH7300.

Note 2: To be connected to TB-2 1 in case of preamplifier is installed in probe.