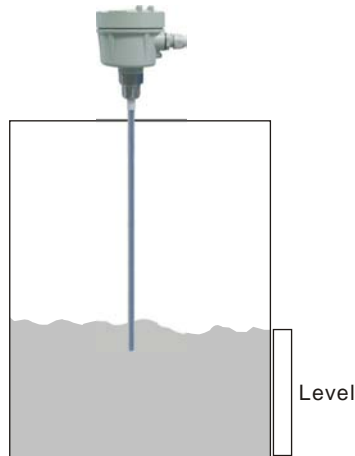


RF-CAPACITANCE LEVEL TRANSMITTER

PRINCIPLE

RF-Capacitance level Transmitter utilizes the capacitance formed between the sensing probe and the reference probe which is the metallic vessel wall to calculate the level of the liquid/medium inside the vessel according to the capacitance theory that the capacitance and vessel are proportional increased.

RF-Capacitance level Transmitter utilizes RC oscillating circuit to create a high frequency signal in which the frequency is reverse proportionate to the capacitance C where the microprocessor is applied to measure the frequency for calculating the capacitance and corresponding to the level in order to control the current volume of 2 wire loop power.



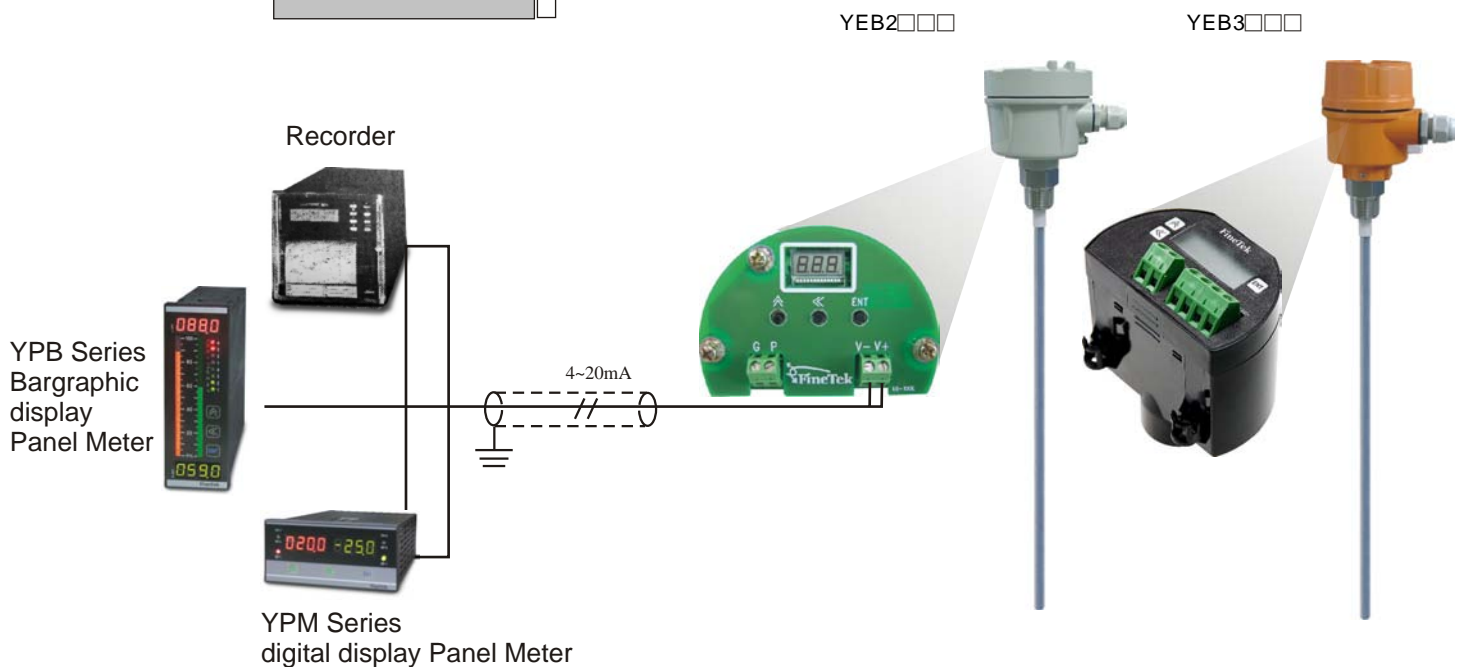
FEATURES

YEB2□□□ Series

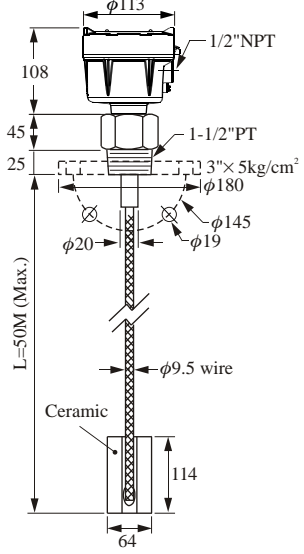
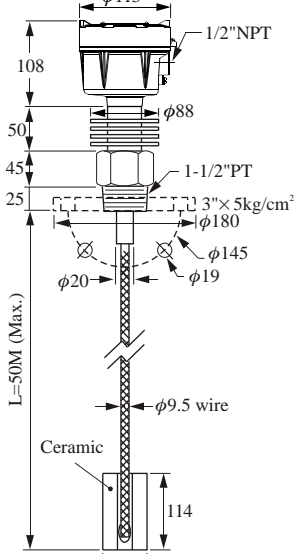
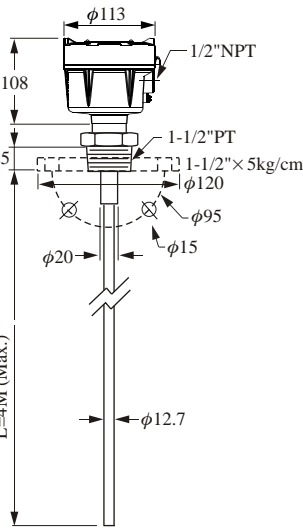
- 4~20mA 2 wire Loop power
- Low consumption of power (20mA Max)
- High accuracy of linearity ($\pm 1\%$ FS)
- Temperature compensation, low temperature effect ($\pm 1\%$ FS / 30°C).
- Easy calibration (Any 2 points for calibration)
- Wide measuring range for capacitance (0~5000PF)
- No blind distance, ideal for different tanks.
- Suitable for high temperature, high pressure and corrosive environment.

YEB3□□□ Series

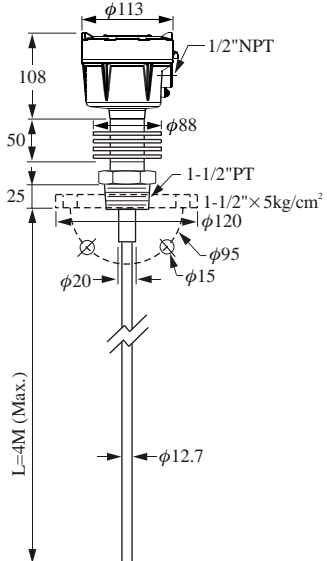
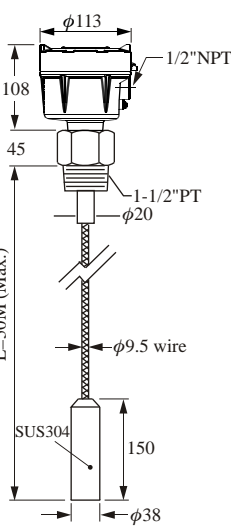
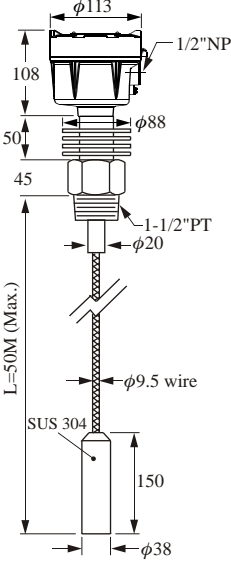
- Dual insulation prevents fog in damaging PCB.
- LCD indication is easy for observation from top of view.
- Power Supply: 10~36Vdc
- Transistor Output
- Protective Housing with high stability prevents from any damages during transportation, installation and operation.
- Measuring accuracy is not affected by temperature and pressure.
- Wiring design enhances the reliability.



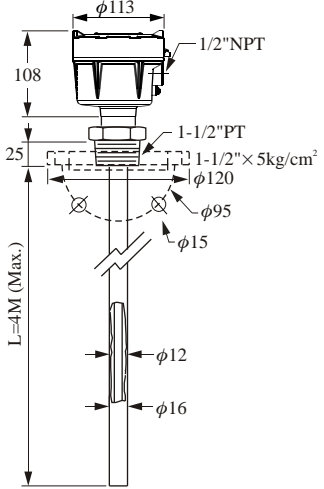
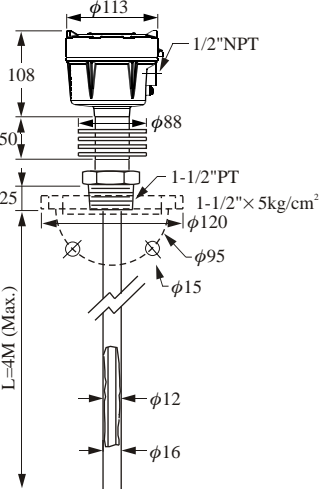
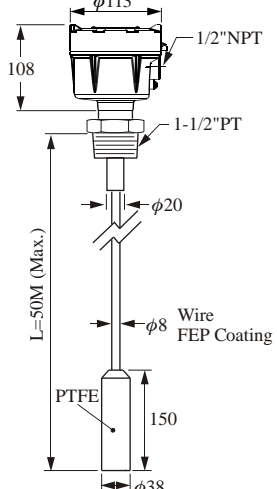
STANDARD SPECIFICATION

Dimensions (unit:mm)			
Model No.	YEB2100 Wire Probe	YEB2101 Hi-Temp Wire Probe	YEB2200 Rod Probe
Probe material	SUS304	SUS304	SUS304/316
Weight material	CERAMIC	CERAMIC	——
Ambient Temperature	-40~80°C	-40~80°C	-40~80°C
Operating temperature	-40~100°C	-40~200°C	-40~100°C
Tensile strength	3500Kgf	3500Kgf	——
Operation voltage	12~36Vdc	12~36Vdc	12~36Vdc
Output current	4 ~20mA	4 ~20mA	4 ~20mA
Measuring Range	0~5000pF	0~5000pF	0~5000pF
Accuracy	± 1%FS	± 1%FS	± 1%FS
Housing IP Degree	IP65	IP65	IP65
Connection	3"x5kg/cm ² or 1-1/2"PT Screw	3"x5kg/cm ² or 1-1/2"PT Screw	1-1/2"x5kg/cm ² or 1-1/2"PT Screw
Weight	Approx. 3.7kg(1M)	Approx. 4.2kg(1M)	Approx. 2.3kg(1M)
Operating pressure	15kg/cm ²	15kg/cm ²	15kg/cm ²

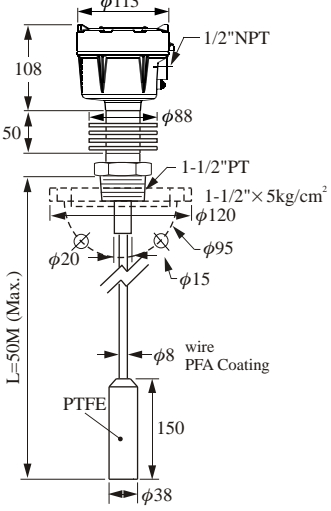
STANDARD SPECIFICATION

Dimensions (unit:mm)			
Model No.	YEB2201Hi-Temp Rod Probe	YEB2300 Wire Probe	YEB2301 Hi-Temp Wire Probe
Probe material	SUS304/316	SUS304	SUS304
Weight material	————	SUS304	SUS304
Ambient Temperature	-40~80°C	-40~80°C	-40~80°C
Operating temperature	-40~200°C	-40~100°C	-40~200°C
Tensile strength	————	3500Kgf	3500Kgf
Operation voltage	12~36Vdc	12~36Vdc	12~36Vdc
Output current	4 ~20mA	4 ~20mA	4 ~20mA
Measuring Range	0~5000pF	0~5000pF	0~5000pF
Accuracy	± 1%FS	± 1%FS	± 1%FS
Housing IP Degree	IP65	IP65	IP65
Connection	1-1/2"x5kg/cm ² or 1-1/2"PT Screw	1-1/2"PT	1-1/2"PT
Weight	Approx. 2.8kg(1M)	Approx. 2.3kg(1M)	Approx. 2.8kg(1M)
Operating pressure	15kg/cm ²	15kg/cm ²	15kg/cm ²

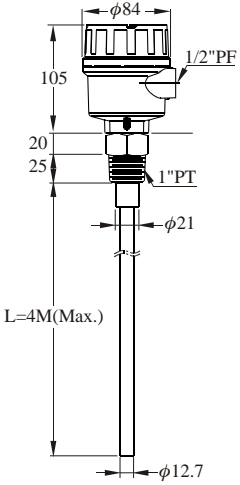
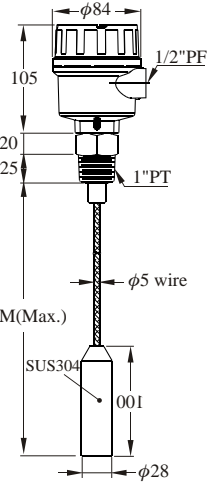
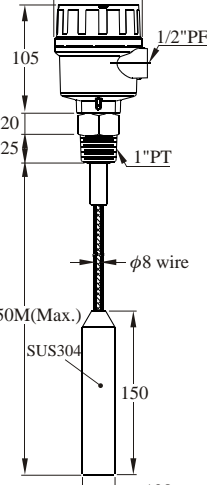
STANDARD SPECIFICATION

<p>Dimensions (unit:mm)</p>	 <p>YEB2400 --- PVDF Coating YEB2420 --- PP Coating YEB2430 --- FEP Coating</p>	 <p>YEB2431 --- PVDF Coating YEB2431 --- PP Coating YEB2431 --- FEP Coating</p>	 <p>YEB2510 --- Nylon Coating YEB2520 --- PP Coating YEB2530 --- FEP Coating</p>
<p>Model No.</p>	<p>YEB2400/20/30 Anti-Corrosion</p>	<p>YEB2431 Hi-temp Anti-Corrosion</p>	<p>YEB2510/20/30 Anti-Corrosion Hi-Temp Wire Probe</p>
<p>Probe material</p>	<p>SUS304+Coating</p>	<p>SUS304+Coating</p>	<p>SUS304+Coating</p>
<p>Weight material</p>	<p>————</p>	<p>————</p>	<p>SUS304+PTFE</p>
<p>Ambient Temperature</p>	<p>-40~80°C</p>	<p>-40~80°C</p>	<p>-40~80°C</p>
<p>Operating temperature</p>	<p>-40~100°C</p>	<p>-40~200°C</p>	<p>-40~100°C</p>
<p>Tensile strength</p>	<p>————</p>	<p>————</p>	<p>1200Kgf</p>
<p>Operation voltage</p>	<p>12~36Vdc</p>	<p>12~36Vdc</p>	<p>12~36Vdc</p>
<p>Output current</p>	<p>4 ~20mA</p>	<p>4 ~20mA</p>	<p>4 ~20mA</p>
<p>Measuring Range</p>	<p>0~5000pF</p>	<p>0~5000pF</p>	<p>0~5000pF</p>
<p>Accuracy</p>	<p>± 1%FS</p>	<p>± 1%FS</p>	<p>± 1%FS</p>
<p>Housing IP Degree</p>	<p>IP65</p>	<p>IP65</p>	<p>IP65</p>
<p>Connection</p>	<p>1-1/2"x5kg/cm²</p>	<p>1-1/2"x5kg/cm²</p>	<p>1-1/2"PT</p>
<p>Weight</p>	<p>Approx. 2.3kg(1M)</p>	<p>Approx. 2.3kg(1M)</p>	<p>Approx. 2.3kg(1M)</p>
<p>Operating pressure</p>	<p>15kg/cm²</p>	<p>15kg/cm²</p>	<p>15kg/cm²</p>

STANDARD SPECIFICATION

<p>Dimensions (unit:mm)</p>	
<p>Model No.</p>	<p>YEB2531 Anti-Corrosion Hi-Temp Wire Probe</p>
<p>Probe material</p>	<p>SUS304+Coating</p>
<p>Weight material</p>	<p>SUS304+PTFE</p>
<p>Ambient Temperature</p>	<p>-40~80°C</p>
<p>Operating temperature</p>	<p>-40~100°C</p>
<p>Tensile strength</p>	<p>1200Kgf</p>
<p>Operation voltage</p>	<p>12~36Vdc</p>
<p>Output current</p>	<p>4 ~20mA</p>
<p>Measuring Range</p>	<p>0~5000pF</p>
<p>Accuracy</p>	<p>± 1%FS</p>
<p>Housing IP Degree</p>	<p>IP65</p>
<p>Connection</p>	<p>1-1/2"PT</p>
<p>Weight</p>	<p>Approx. 2.3kg(1M)</p>
<p>Operating pressure</p>	<p>15kg/cm²</p>

STANDARD SPECIFICATION

Dimensions (unit:mm)			 <p> YEB3510 --- Nylon Coating YEB3520 --- PP Coating YEB3530 --- FEP Coating </p>
Model No.	YEB3200 Rod Probe	YEB3300 Wire Probe	YEB3510/20/30 Anti-Corrosion Hi-Temp Wire Probe
Probe material	SUS304/316	SUS304	SUS304+Coating
Weight material	————	SUS304	SUS304+PTFE
Ambient Temperature	-40~80°C	-40~80°C	-40~80°C
Operating temperature	-40~100°C	-40~100°C	-40~100°C
Tensile strength	————	3500Kgf	1200Kgf
Operation voltage	12~36Vdc	12~36Vdc	12~36Vdc
Output current	4 ~20mA	4 ~20mA	4 ~20mA
Measuring Range	0~5000pF	0~5000pF	0~5000pF
Accuracy	± 1%FS	± 1%FS	± 1%FS
Housing IP Degree	IP65	IP65	IP65
Connection	1"x5kg/cm ² or 1"PT Screw	1"PT	1"PT
Weight	Approx. 2.3kg(1M)	Approx. 2.3kg(1M)	Approx. 2.3kg(1M)
Operating pressure	15kg/cm ²	15kg/cm ²	15kg/cm ²

STANDARD SPECIFICATION

Dimensions (unit:mm)	
	<p>YEB3400 --- PVDF Coating YEB3420 --- PP Coating YEB3430 --- FEP Coating</p>
Model No.	YEB 3400/20/30A anti-Corrosion
Probe material	SUS304+Coating
Weight material	————
Ambient Temperature	-40~80°C
Operating temperature	-40~100°C
Tensile strength	————
Operation voltage	12~36Vdc
Output current	4 ~20mA
Measuring Range	0~5000pF
Accuracy	± 1%FS
Housing IP Degree	IP65
Connection	1"x5kg/cm ²
Weight	Approx. 2.3kg(1M)
Operating pressure	15kg/cm ²

Dimensions (unit:mm)	
	YEB2600 --- FEP Coating
Model No.	YEB2600
Power Supply	10~36Vdc
Measuring Range	0~5000pF
Output Current	4~20mA(two wire)
Output Linear Range	3.8~21.5mA
Upper Limit	22mA
Lower Limit	3.5mA
Output Latch	3.5、22mA
Linearity	± 1%F.S
Load Resistance	(Vs- 9) x 50Ω Vs:Power Voltage
Environment Temperature	-10°C~55°C
Operation Temperature	-40°C~100°C
Environment Humidity	0~85%
Temperature Coefficient	± 1% F.S per 30°C
LCD Display	-1999 ~ 9999
Protective Degree	IP 65

CODE NAME INFORMATION

YEB 2 1 6 0
HM
5 0 0 0

Order No. _____

- YEB3200 ---Rod Type
- YEB3300 ---Wire Probe Type
- YEB34□□-- Anti-Corrosion
(3400: PVDF 3420: PP 3430: FEP)
- YEB35□□-- Anti-Corrosion with Wire-probe weight
(3510: Nylon 3520: PP 3530: FEP)
- YEB2100 ---Wire Probe Type
- YEB2101 ---Hi-Temp Wire Probe Type
- YEB2200 --- Rod Type
- YEB2201 ---Hi-Temp Rod Probe Type
- YEB2300 ---Wire Probe Type
- YEB2301 ---Hi-Temp Wire ProbeType
- YEB24□□-- Anti-Corrosion
(2400: PVDF 2420: PP 2430: FEP)
- YEB2431 ---Anti-Corrosion Hi-Temp Wire ProbeType
- YEB25□□-- Anti-Corrosion with Wire-probe weight
(2510: Nylon 2520: PP 2530: FEP)
- YEB2531 ---Anti-Corrosion Hi-Temp Wire ProbeType
- YEB2600--- CompactRamp (FEP Coating)

Material _____

0: SUS304, 6: SUS316

Connecting _____

- | | |
|----------------------|---------------------------|
| B --- 1/2" (YEB2600) | M---5kg/cm ² |
| C --- 3/4" (YEB2600) | N ---10kg/cm ² |
| D ---1" | O ---150 Lbs |
| E ---1-1/2" | P ---300 Lbs |
| F ---2" | Q ---PT pipe thread |
| G ---2-1/2" | R ---PF(G) pipe thread |
| H ---3" | T ---BSP pipe thread |
| I ---4" | U ---NPT pipe thread |
| J ---5" | V ---GAS |
| K ---6" | S ---others |
| S ---others | |

Length L (UNIT: mm) _____

- 0500: 50cm(01~50)
- 1000: 100cm(51~100)
- 1500: 150cm(101~150) ※ 50cm per Unit

* Tolerance of the total product length is ±5mm
 * Characteristics, specifications and dimensions are subject to change without notice.
 * Please contact your nearest distributing office for further informations.