

# MULTI-PROBE DIGITAL SENSOR

## AMPS-04



### RS485 Modbus RTU output

**pH** **ORP** **Conductivity/TDS/Salinity** **Dissolved Oxygen** **Temperature**

Order number	AMPS-04
Specifications	
<b>pH range:</b>	0 - 14
Zero point(pH):	7.00 ± 0.25
Resolution:	0.01pH
Reference system:	SNEX Ag/ AgCl/ KCl
Liquid junction:	SNEX
<b>ORP range:</b>	-2000mV - 2000mV
Resolution:	1mV
Accuracy:	±1mV
Membrane:	Pt
Liquid junction:	SNEX
<b>Conductivity</b>	1.0 μS/cm ~ 20.00 mS/cm
Resolution:	0.1 μS/cm ~ 0.01 mS/cm
Cell constant	K=1.0
Temperature coefficient	0.00 %~10.00 %
<b>TDS</b>	1.0 ppm ~ 10.00 ppt
Resolution	0.1 ppm ~ 0.01 ppt
TDS factor	0.40 ~ 1.0
<b>Salinity</b>	0.0 ~ 16.0 g/L
Resolution	0.1 g/L
Accuracy	±0.5% FS
Salinity factor	0.2~0.8 Factory default(0.60)
Liquid junction	Glass , Pt
<b>Dissolved Oxygen</b>	0.0-400.0%, 0.00-40.00 mg/L
Resolution	0.1%, 0.01 mg/L
Accuracy	±0.2% FS
Pressure	+20 ~ -10 bar
Method	Polarography
Salinity Compensation	0.0 ~ 50.0 ppt
Temperature Compensation	0.0 ~ 50.0 °C
Pressure Compensation	600 ~ 2000 mBar
Response time:	< 60 s (95%, 25 °C)
Stabilization time:	15 - 20 min
Zero drift	<0.5%
<b>Temperature</b>	0 - 60 °C
Accuracy	± 0.5 °C
Unit	°C
Shaft material	POM
Size	Φ 72 x 205 mm
Weight	1.0 Kg
Sensor cap	NPT 1"
Cable	5m
Connector	terminals
Communication interface / Protocol	RS-485 Modbus RTU
Power input	DC 12~24V
Output	pH,ORP,Conductivity, TDS, Salinity, Dissolved Oxygen, Temperature
IP rated	IP68

# MULTI-PROBE DIGITAL SENSOR

## AMPS-03

**pH** **ORP** **Conductivity/TDS/Salinity** **Temperature**

### RS485 Modbus RTU output

Order number	AMPS-03
Specifications	
<b>pH range</b>	0 - 14
Zero point(pH)	7.00 ± 0.25
Junction:	Double
<b>ORP range</b>	-1000mV ~ +1000mV
Resolution	1mV
Junction	Double
<b>Conductivity</b>	1.0 μS/cm ~ 20.00 mS/cm
Resolution	0.1 μS/cm ~ 0.01 mS/cm
Temperature coefficient	0.00 %~10.00 %
<b>TDS</b>	1.0 ppm ~ 10.00 ppt
Resolution	0.1 ppm ~ 0.01 ppt
TDS factor	0.40~ 1.0
<b>Salinity</b>	0.0~ 16.0 g/L
Resolution	0.1 g/L
Accuracy	±0.5% FS
Salinity factor	0.2~0.8 Factory default(0.60)
Electrode	Graphite
<b>Temperature</b>	0 - 60 °C
Accuracy	± 0.5 °C
Unit	°C
Housing	POM
Size	Φ 45 x 176 mm
Weight	350 g
Sensor cap	NPT 3/4" NPT
Cable	5m
Connector	terminals
interface / Protocol	RS-485 Modbus RTU
Power input	DC 12~24V
Output	pH,ORP,Conductivity/TDS/Salinity, Temperature
IP rated	IP68



One Year Work Life Guarantee. No Replacement of Electrode Fittings

For pool water, tap water, aquaculture water, general water

# MULTI-PROBE DIGITAL SENSOR

## AMPS-02

### RS485 Modbus RTU output

Order number	AMPS-02
Specifications	
<b>pH range</b>	0 - 14
Zero point(pH)	7.00 ± 0.25
Junction	Double
<b>ORP range</b>	-1000mV ~ +1000mV
Resolution	1mV
Junction	Double
<b>Conductivity</b>	1.0 μS/cm ~ 500.0 mS/cm
Resolution	0.1 μS/cm ~ 0.1 mS/cm
Temperature coefficient	0.00 %~10.00 %
<b>TDS</b>	1.0 ppm ~ 250.0 ppt
Resolution	0.1 ppm ~ 0.1 ppt
TDS factor	0.40 ~ 1.0
<b>Salinity</b>	0.0 ~ 500.0 g/L
Resolution	0.1 g/L
Accuracy	±0.5% FS
Salinity factor	0.2~0.8 Factory default(0.60)
Electrode	4 Electrode Graphite
<b>Temperature</b>	0 - 60 °C
Accuracy	± 0.5 °C
Unit	°C
Housing	POM
Size	Φ 45 x 176 mm
Weight	350 g
Sensor cap	NPT 3/4" NPT
Cable	5m
Connector	terminals
interface / Protocol	RS-485 Modbus RTU
Power input	DC 12~24V
Output	pH,ORP,Conductivity/TDS/Salinity, Temperature
IP rated	IP68



No Replacement of Electrode Fittings

For pool water, tap water, mariculture water, general water

# MULTI-PROBE DIGITAL SENSOR

## AMPS-01

### CS8042D Multi-Probe Digital Sensor

**pH** **Free Chlorine** **Conductivity/TDS/Salinity** **Temp.**

#### RS485 Modbus RTU output

Order number	AMPS-01
Specifications	
<b>pH range</b>	0 - 14
Zero point(pH)	7.00 ± 0.25
Junction	Double
<b>Free Chlorine</b>	0~20.00mg/L
Resolution	0.01mg/L
Accuracy	±1%
<b>Conductivity</b>	1.0 μS/cm ~ 20.00 mS/cm
Resolution	0.1 μS/cm ~ 0.01 mS/cm
Temperature coefficient	0.00 %~10.00 %
<b>TDS</b>	1.0 ppm ~ 10.00 ppt
Resolution	0.1 ppm ~ 0.01 ppt
TDS factor	0.40 ~ 1.0
<b>Salinity</b>	0.0 ~ 16.0 g/L
Resolution	0.1 g/L
Accuracy	±0.5% FS
Salinity factor	0.2~0.8 Factory default(0.60)
Electrode	Graphite
<b>Temperature</b>	0 - 60 °C
Accuracy	± 0.5 °C
Unit	°C
Housing	SS316L
<b>Sensor</b>	
Housing	POM
Size	Φ45 x 176 mm
Weight	350 g
Sensor cap	NPT 3/4" NPT
Cable	5m
Connector	terminals
interface / Protocol	RS-485 Modbus RTU
Power input	DC 12~24V
Output	pH, Free Chlorine, Conductivity/TDS/Salinity, Temp.
IP rated	IP68



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