



LDSBus Probe Specifications

Version 2.0

Issue Date: 18-05-2023

pH Sensors

Item	Model / PN	Connector	Measurement Range	Operating Temperature	Resolution	Accuracy	Application
pH Sensor Probe	DX-100	BNC	0-14 pH	0 ~ 80 °C	-	-	Water Treatment Swimming Pool Sewage Wastewater Aquaculture
pH Sensor Probe	E-1325M	BNC	0-14 pH	0 ~ 50 °C	0.01 pH	±0.01 pH	Water treatment Pool and Spa water

DX-100



E-1325M



LDSBus pH Sensor Adapter



LDSBus pH Sensor Adapter

The following specifications are recommended for selecting pH sensor adapter Probe -

pH Range	:	0~14pH
Connector Interface	:	BNC
Zero Point	:	Max. 7±0.5pH
Theoretical slope %	:	≥90% and ≤105%
Internal Resistance	:	≤250MΩ

Electrical Conductivity (EC) Sensors

Item	Model / PN	Connector	Cell Constant	Measurement Range	Resolution	Accuracy	Application
EC Sensor Probe	DJS-0.1	BNC	0.1	(1 – 1500 uS/cm)	-	-	Fresh water
EC Sensor Probe	DJS-1	BNC	1.0	(1 – 15 mS/cm)	-	-	Fresh water
EC Sensor Probe	DJS-10	BNC	10	(1 – 150 mS/cm)	-	-	Fresh water

DJS-0.1



DJS-1



DJS-10



LDSBUS EC Sensor Adapter



LDSBUS EC Sensor Adapter

The following specifications are recommended for selecting EC sensor adapter Probe -

- Detection Range : 0.001mS/cm to 1.5mS/cm
- Cell Constant : K=0.1
- Detection Range : 0.05mS/cm to 15mS/cm
- Cell Constant : K=1.0
- Detection Range : 0.5mS/cm to 150mS/cm
- Cell Constant : K=10
- Connector : BNC

Oxidation-Reduction Potential (ORP) Sensors

Item	Model / PN	Connector	Measurement Range	Operating Temperature	Resolution	Accuracy	Application
ORP Sensor Probe	ORP-1/ORTK-777	BNC	-1999 ~ 1999 mV	-	1 mV	±0.1% FS	Fresh water
ORP Sensor Probe	ENV-40-ORP	BNC *	-2000 ~ 2000 mV	1 ~ 99 °C	1 mV	± 1 mV	Fresh water / Salt water

*Needs SMA to BNC Adapter

Note: In the Accuracy specification, FS refers to Full Scale

ORP-1/ORTK-777



ENV-40-ORP



LDSBus ORP Sensor Adapter



LDSBus ORP Sensor Adapter

The following specifications are recommended for selecting ORP sensor adapter Probe -

Detection Range : -2000mV to +2000mV
 Connector : BNC

Dissolved Oxygen (DO) Sensor

Item	Model / PN	Connector	Measurement Range	Operating Temperature	Resolution	Accuracy	Application
DO Sensor Probe	ENV-40-DOX	BNC *	0 – 100 mg/L	1 ~ 60 °C	-	±0.05 mg/L	Fresh water / Salt water

*Needs SMA to BNC Adapter

ENV-40-DOX



LDSBus DO Sensor Adapter



LDSBus DO Sensor Adapter

The following specifications are recommended for selecting Dissolved Oxygen sensor adapter Probe -

- Type : Galvanic Probe
- Detection Range : 0-50mg/L
- Connector : BNC

Thermocouple Sensor

Item	Model / PN	Connector	Measurement Range	Operating Temperature	Resolution	Accuracy	Application
Thermocouple	TS0005CSTMZD	Type K	-40 ~ 480 °C	-	-	-	Fresh water /Salt water

TS0005CSTMZD



LDSBus Thermocouple Sensor Adapter



LDSBus Thermocouple Sensor Adapter

Type K Plugs to terminate Type K thermocouple probes for connection to LDSBus Thermocouple Sensor Adapter

‘+’ Contact	‘-’ Contact	IEC Miniature		ANSI Miniature		JIS Miniature	
		Colour	Green	Colour	Yellow	Colour	Blue
Nickel Chromium	Nickel Alloy						

Water Level Transmitter

Item	Model / PN	Connector	Measurement Range (meters)	Output Signal (mA)	Power Supply (VDC)	Accuracy	Application
Water Level Transmitter	ALS-MPM-2F	Two Wires	0 - 5 metres	4-20 mA	12-24 (Volts DC)	0.5% FS	Sensing of Liquid levels

Note: The Water Level Transmitter connects to the LDSBus Isolated IO Controller

Note: In the Accuracy specification, FS refers to Full Scale

ALS-MPM-2F



LDSBus Isolated IO Controller

