

MIJ-NLTP + MIJ-01 Setting Instruction

Temperature sensor MIJ-NLTP setting example: **Single end**

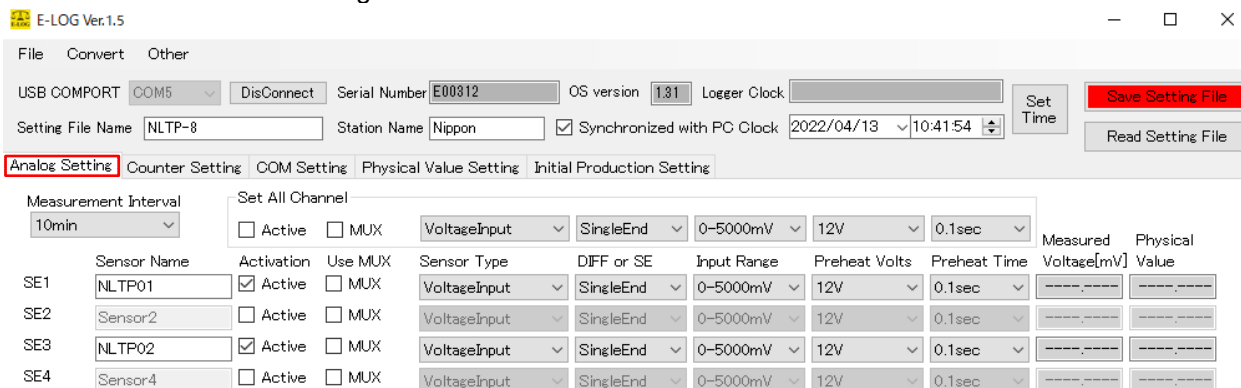
Preheat is used to apply 12V to the sensor, read the output and measure in the cycle to end the preheat.

SE1

Sensor Type	VoltageInput
Measurement Method	SE
Input range	0-5000mV
Preheat Voltage	12V
Preheat Voltage	0.1sec

MIJ-01Setting (NLTP-8)

Drive by PRH and wire SE for detection to one temperature sensor. It responds in 0.1 seconds. By skipping one SE input, it is a simple wiring with the upper limit of the same number of measurements as the preheat terminal. Up to 8 sensors can connect. Use NLTP-08.esf for the configuration file.



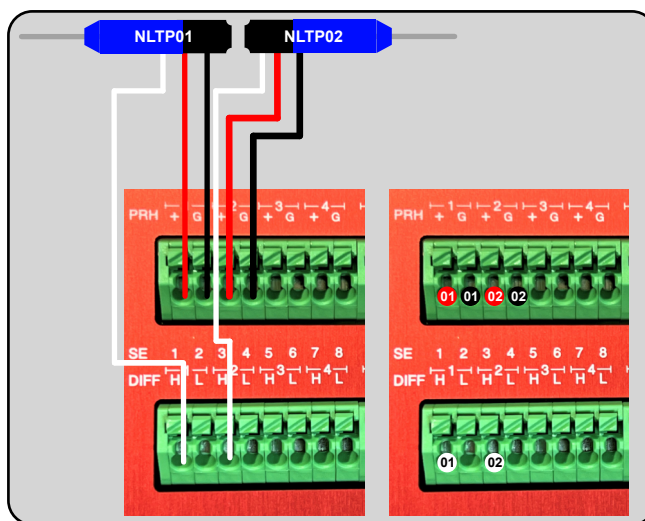
Wiring

NLTP01 as below wiring

- Red PRH1 +
- Black PRH G1
- White SE1

NLTP02 as below wiring

- Red PRH2 +
- Black PRH G2
- White SE3



Operation setting method

Enter the conversion formula in Physical Value Setting.



-0.000000001809628*(mV)^3-0.000003325395*(mV)^2-0.1814103*(mV)+205.5894

Copy this formula and paste it into the conversion formula input section. *Be sure to change the mV in the formula to a Variable value.

Active Physical Value Calculation

Variable	Activated Ch	Sensor Name	Enter Any Value(to Check Eq.)
X001	SE1	NLTP01	1
X003	SE3	NLTP02	3

Sensor Name	Equation
NLTP01	-0.000000001809628*(X001)^3-0.000003325395*(X001)^2-0.1814103*(X001)+205.5894
NLTP02	-0.000000001809628*(X003)^3-0.000003325395*(X003)^2-0.1814103*(X003)+205.5894



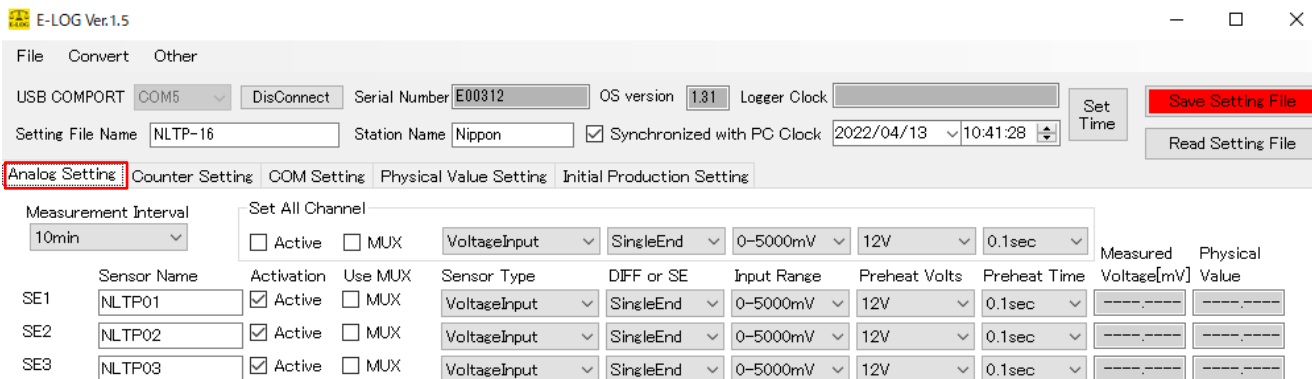
Environmental Measurement Japan

2-52-42 Takamidai, Fukuoka-city Higashiku, Fukuoka 811-0215, Japan
 TEL:092-608-6412
 FAX:092-985-7844

MIJ-NLTP + MIJ-01 Setting Instruction

MIJ-01Setting (NLTP-16)

Drive by PRH and wire SE for detection to one temperature sensor. It responds in 0.1 seconds. Wiring that can use SE input for all channels. One preheat terminal drives two dendrometers. Up to 16 sensors. Use NLTP-16.esf as the configuration file.



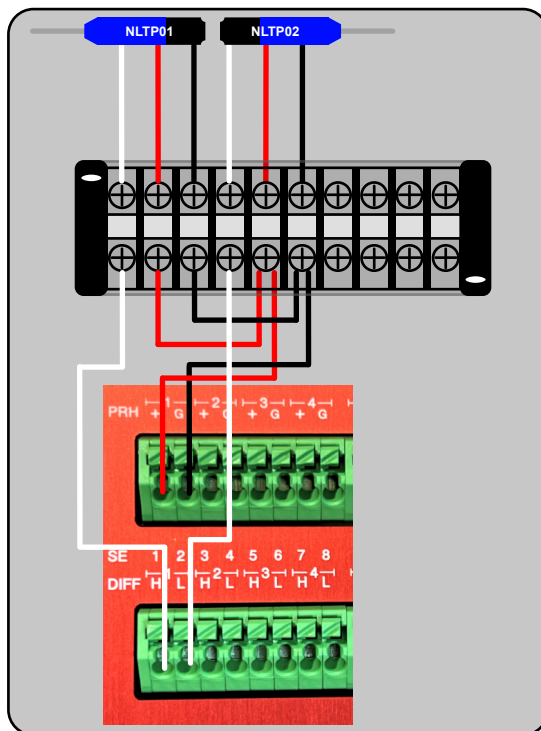
Wiring

NLTP01 wiring as below

- Red PRH1 +
- Black PRH G1
- White SE1

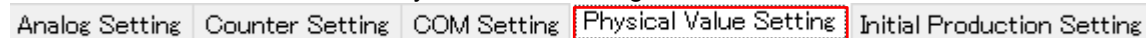
NLTP02 wiring as below

- RED PRH1 +
- Black PRH G1
- White SE2



Operation setting method

Enter the conversion formula in Physical Value Setting.



-0.000000001809628*(mV)³-0.000003325395*(mV)²-0.1814103*(mV)+205.5894

Copy this formula and paste it into the conversion formula input section. *Be sure to change the mV in the formula to a Variable value.

Active Physical Value Calculation

Variable	Activated Ch	Sensor Name	Enter Any Value(to Check Eq.)
X001	SE1	NLTP01	1
X002	SE2	NLTP02	2

Sensor Name	Equation
NLTP01	$-0.000000001809628*(X001)^3-0.000003325395*(X001)^2-0.1814103*(X001)+205.5894$
NLTP02	$-0.000000001809628*(X002)^3-0.000003325395*(X002)^2-0.1814103*(X002)+205.5894$

*From SE10, Variable becomes two digits, so enter X010. Please avoid entering X0010.

Variable	Activated Ch	Sensor Name	Enter Any Value(to Check Eq.)
X010	SE10	NLTP10	10
X011	SE11	NLTP11	11

NLTP10	$-0.000000001809628*(X010)^3-0.000003325395*(X010)^2-0.1814103*(X010)+205.5894$	Check
NLTP11	$-0.000000001809628*(X011)^3-0.000003325395*(X011)^2-0.1814103*(X011)+205.5894$	Check



Environmental Measurement Japan

2-52-42 Takamidai, Fukuoka-city Higashiku, Fukuoka 811-0215, Japan
 TEL:092-608-6412
 FAX:092-985-7844