

# Traceability Chart

**NEC**

Calibration Center  
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Scope: **Temperature Calibration**

National Standard

National Institute of Metrology (Thailand), NIMT

NEC's Highest Standards

- SPRT Standard (Hart Scientific, 5626)
- Type S Standard Thermocouple (High Temp.)
- High Precision Thermo-Hygrometer (Fluke 1621A)

- Multi-Function Calibrator (Fluke 5720A)
- DCV Standard (Fluke 732B)

NEC's Working Standards

**Standard Sensors and Thermometers:**

- PRT Standard Sensor (Asahi), Pt-100
- PRT Standard Sensor (Anritsu), Pt-100
- PRT Standard Sensor (Netsushin), Pt-100
- Type S Thermocouple (High Temp.)
- Type T Thermocouple Set (RS)
- High Precision LIG Thermometers (Nippon Kei)
- Black Stack Thermometer (Hart 1560, 2562)
- Reference Junction Set (Type E, J, K, N, R, S, T)
- Data Logger With RTD Sensor (Agilent 34970A)
- Hybrid Recorder With Type T Sensors (Yokogawa)
- Digital Thermometer (Yokogawa 7563-21)
- Humidity Transmitters (Rense)

**Temperature Sources:**

- Dry Block Calibrator (Hart Scientific, 9105)
- Dry Block Calibrator (Hart Scientific, 9122A)
- Surface Calibrator (Anritsu ACSII)
- Liquid Bath (Jubalo)
- Micro Bath (Hart Scientific, 6102 7103)
- Temperature / Humidity Controlled Chamber (Espec, PR1KP)

**Standard Simulators:**

- Multi-Product calibrators (Fluke 5520A)
- Process Calibrator (Fluke 744)

**Standard Indicators:**

- Digital Multimeter (Agilent 3458A)
- Digital Multimeter (Fluke 8846A)

Customer's Equipment

**Temperature Sensors:**

- Thermocouple Sensors \*
- Thermocouple Extension Wire\* (Type E / J / K / N / R / S / T)
- RTD Sensors \*

Range: -20°C~700°C

**Thermometers:**

- Liquid-in-glass Thermometers \*
- Thermometer With Sensors \* (Analog / Digital)
- Recorder With Sensors \*
- Surface Thermometers

Range: -20°C~700°C

**Temperature Sources:**

- Dry Block Calibrators \*
- Liquid Bath \*
- Chambers, Oven \*
- Incubators, Autoclave \*

Range: -40°C~1,000°C

**Thermo-Hygro:**

- Thermo-Hygrographes
- Thermo-Hygrometers (Analog / Digital)
- Humidity Transmitter

Range: Tem. -20°C~50°C  
Hum. 20%~90%rh

**Temperature Indicators / Simulators:**

- Hybrid Recorders \*
- Reflow / Soldering Testers \*
- Data Logger / Thermometer \*
- Process Calibrators \*
- Temperature Calibrators \*

Range: TC all type, RTD all type

Remark: \* ISO/IEC 17025 accredited scopes by Thai Laboratory Accreditation Scheme (Thai Industrial Standards Institute, Ministry of Industry).