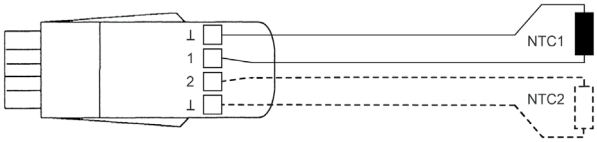
11/2025 • We reserve the right to make technical changes.

## Digital ALMEMO® D6 measuring connector for temperature sensors NTC

**High levels of precision and resolution 0.001 K across measuring range -20 to +65 °C.**
**Linearization of the NTC characteristic - calculated using Galway Steinhart coefficients.**
**Increased measured value accuracy - thanks to multi-point adjustment of the NTC sensor during calibration.**
**For all ALMEMO® V6 and V7 measuring instruments, including ALMEMO® 2490 and ALMEMO® 202-S.**






### Technical data and functions

- The digital ALMEMO® D6 measuring connector uses its own integrated A/D converter. Linearization of the NTC characteristic is calculated using the Galway Steinhart coefficients (not an approximation). Across measuring range -20 to +65 °C this produces the very high resolution of 0.001 K.
- The digital temperature sensor reaches this high level of precision irrespective of any extension cables used and of any processing in the ALMEMO® display device / data logger. Overall accuracy is determined exclusively by the NTC sensor and the ALMEMO® D6 measuring connector. This increased measured value accuracy is achieved by subjecting the NTC sensor to multi-point adjustment during calibration.

With the ALMEMO® D6 measuring plug, customer-specific NTC sensors can be connected to the ALMEMO® system after the corresponding Steinhart-Hart coefficients have been configured via the sensor menu.
When using own sensors no additional adjustment of the connector is necessary.

## Technical data

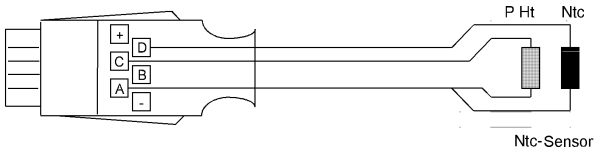
| | |
|---|---|
| Sensor type | NTC type N |
| Measuring input | Electrically interconnected with the power supply (ALMEMO® device ground) |
| Measuring ranges | see variants |
| Resolution | see variants |
| Refresh rate | 0.3 seconds for up to two channels |
| Linearization | Calculated (not an approximation) |

| | |
|---|---|
| Accuracy | |
| Range DNtc / DNt2 | ±0.05 K at -50 to +100 °C |
| Range DNtc3 | ±0.02 K at -20 to +65 °C |
| Nominal temperature | 23 °C ±2 K |
| Temperature drift | 0.004 % / K (40 ppm) |
| Supply voltage | from 6 V up, from ALMEMO® device (sensor supply voltage) |
| Current consumption | approx. 4 mA |
| Environmental conditions | see general technical specifications |

## Types:

| Type / input | Measuring range | Range | Resolution | Order no. |
|---|---|---|---|---|
| NTC, 1 input | -50...+125 °C | DNtc | 0.01 K | **ZAD040FS** |
| NTC, 2 inputs | -50...+125 °C | DNtc/DNt2 | 0.01 K | **ZAD040FS2** |
| NTC, 1 input | -20...+65 °C | DNt3 | 0.001 K | **ZAD040FS3** |

## ALMEMO® Connector for Ntc Sensors




| Types: | | | Order no. |
|---|---|---|---|
| Model | Meas. Range | Resolution | |
| Ntc Type N | –50.0 to +125.0 °C | 0.01 K | **ZA9040FS** |
| 2x Ntc Type N | –50.0 to +125.0 °C | 0.01 K no electrical isolation | **ZA9040FS2** |

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