

**Thermocouples T and U**

The table below shows the maximum precision error values for thermocouples T and U at 25° C.

| Temperature                                                                                     |         | Thermocouple T   |        | Thermocouple U   |        |
|-------------------------------------------------------------------------------------------------|---------|------------------|--------|------------------|--------|
| Maximum error at 25° C (1)                                                                      |         | TFAST            | Pt100  | TFAST            | Pt100  |
| Operating point                                                                                 | -200° C | 3.7° C           | 2.5° C |                  |        |
|                                                                                                 | -100° C | 3.6° C           | 2.4° C |                  |        |
|                                                                                                 | 0° C    | 3.5° C           | 2.3° C | 2.5° C           | 2.3° C |
|                                                                                                 | 100° C  | 2.6° C           | 2.4° C | 2.6° C           | 2.4° C |
|                                                                                                 | 200° C  | 2.6° C           | 2.4° C | 2.6° C           | 2.4° C |
|                                                                                                 | 300° C  | 2.6° C           | 2.4° C | 2.6° C           | 2.4° C |
|                                                                                                 | 400° C  | 2.7° C           | 2.5° C | 2.7° C           | 2.5° C |
|                                                                                                 | 500° C  |                  |        | 2.7° C           | 2.5° C |
|                                                                                                 | 600° C  |                  |        | 2.7° C           | 2.5° C |
| Input dynamic                                                                                   |         | -2,540..3,840° C |        | -1,810..5,810° C |        |
| Legend:                                                                                         |         |                  |        |                  |        |
| (1) TFAST: Internal compensation by TELEFAST.<br>PT100: External compensation by Pt100 3 wires. |         |                  |        |                  |        |

**Reference standards:**

- Thermocouple U: DIN 43710, December 1985 edition.
- Thermocouple T: IEC 584-1, 1<sup>st</sup> edition, 1977 and IEC 584-2, 2<sup>nd</sup> edition, 1989.