

## • Anwendung

Für den Einsatz im allgemeinen Maschinen-, Apparate-, Behälter- und Rohrleitungsbau sowie in der Chemie-Verfahrenstechnik und im Lebensmittelbereich sehr gut geeignet.

## • Service intended

These rugged thermometers are well suited for machine and apparatus engineering, pressure vessels and piping as well as for environments in chemical process and food industry.

## • Utilisation

Ces thermomètres sont très bien adaptés aux utilisations dans la construction de machines, d'appareils, de tuyauterie et réservoirs ainsi que dans la chimie, technologie des procédés industriels et dans l'industrie alimentaire.



| Technische Daten                                                                                                                                                          | Technical Data                                                                                                                                                          | Caractéristiques techniques                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Anschlusskopf</b><br>nach DIN 43729, Form B bzw. A aus Alu<br>Kabeleinführung : M20 x 1,5 mm                                                                           | <b>Connection head</b><br>per DIN 43729, form B or A, aluminium<br>Cable entry: M20 x 1,5 mm                                                                            | <b>Tête de raccordement</b><br>Forme B ou A selon DIN 43729, en aluminium<br>Presse-étoupe: M20 x 1,5 mm                                                                  |
| <b>Schutzart</b><br>IP 54 nach EN 60529                                                                                                                                   | <b>Protection class</b><br>IP 54 per EN 60529                                                                                                                           | <b>Degré de protection</b><br>IP 54 selon EN 60529                                                                                                                        |
| <b>Anschlusssockel</b><br>Keramik                                                                                                                                         | <b>Connection socket</b><br>Ceramic                                                                                                                                     | <b>Socle de raccordement</b><br>Céramique                                                                                                                                 |
| <b>Messeinsatzrohr</b><br>Inconel 600 2.4816                                                                                                                              | <b>Measuring insert tube</b><br>Inconel 600 2.4816                                                                                                                      | <b>Tuyau de éléments de rechange</b><br>Inconel 600 Ni15Fe                                                                                                                |
| <b>Schutzrohr</b><br>Stahl 1.4841 bzw. 1.4749, bzw. Keramik                                                                                                               | <b>Thermowell</b><br>Steel 446 / Stainless steel 316Ti, or ceramics                                                                                                     | <b>Doigt de gant</b><br>Acier Z10C24 / acier inox Z6 CNDT 16, ou céramique                                                                                                |
| <b>Messorgan*</b><br>Thermoelement (Thermopaar) nach DIN EN 60584<br>Fe-CuNi Typ (J)<br>NiCr-Ni Typ (K)<br>Pt10Rh-Pt Typ (S)<br>Pt30Rh-Pt6Rh Typ (B)<br>Pt13Rh-Pt Typ (R) | <b>Measuring element*</b><br>Thermocouple per DIN EN 60584<br>Fe-CuNi type (J)<br>NiCr-Ni type (K)<br>Pt10Rh-Pt type (S)<br>Pt30Rh-Pt6Rh type (B)<br>Pt13Rh-Pt type (R) | <b>Élément la mesure*</b><br>Thermocouple selon DIN EN 60584<br>Fe-CuNi type (J)<br>NiCr-Ni type (K)<br>Pt10Rh-Pt type (S)<br>Pt30Rh-Pt6Rh type (B)<br>Pt13Rh-Pt type (R) |
| <b>Temperaturbereiche</b><br>siehe Seiten 19.0403 - 19.0405                                                                                                               | <b>Temperature range</b><br>see pages 19.0403 - 19.0405                                                                                                                 | <b>Plage de températures</b><br>voir pages 19.0403 - 19.0405                                                                                                              |
| <b>Genauigkeitsklasse</b><br>Klasse 2 nach DIN EN 60584 = ± 2,5°C                                                                                                         | <b>Accuracy class</b><br>Class 2 per DIN EN 60584 = ± 2,5°C                                                                                                             | <b>Tolérance</b><br>Classe 2 selon DIN EN 60584 = ± 2,5 °C                                                                                                                |



## Ergänzungen

siehe Seiten 11.3208 - 11.3406

## Technische Informationen

siehe ab Seite 19.0401



## Optional extras

see pages 11.3208 - 11.3406

## Technical information

see from page 19.0401



## Options

voir pages 11.3208 - 11.3406

## Informations techniques

voir à partir de la page 19.0401

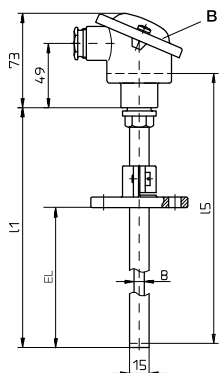
\* Gewünschtes Messelement (Thermoelementtyp) bei der Bestellung bitte angeben!

\* Preferred measuring element (thermocouple type), please specify when ordering!

\* Désiré élément (de type thermocouple) la mesure, s'il vous plaît préciser à la commande!

# T21 T22

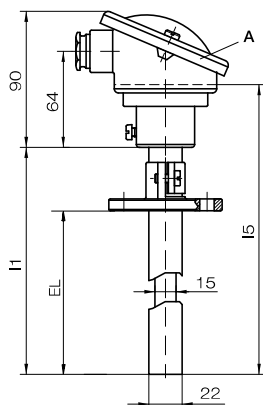
## Thermoelemente Thermocouples Thermocouples



**T21.U.4**

mit Schutzrohr Form A nach DIN 43763  
with thermowell form A DIN 43763  
avec doigt de gant forme A selon DIN 43763  
<600°C = 1.4571, 316Ti, Z6 CNDT 17-12  
>600°C = 1.4749, AISI446, Z6 CNDT 16

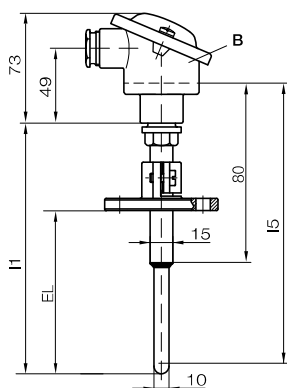
| T21.U.4<br>DIN 43764 |                                            |                             | Messeinsatz<br>Measurig inserts<br>Éléments de rechange |                                            |                             |
|----------------------|--------------------------------------------|-----------------------------|---------------------------------------------------------|--------------------------------------------|-----------------------------|
| l1<br>mm             | Bestell-Nr.<br>Order-N°.<br>N° de commande |                             | l5<br>mm                                                | Bestell-Nr.<br>Order-N°.<br>N° de commande |                             |
|                      | 1x Fe-CuNi<br>-200 - +600°C                | 1x NiCr-Ni<br>-200 - +800°C |                                                         | 1x Fe-CuNi<br>-200 - +600°C                | 1x NiCr-Ni<br>-200 - +800°C |
| 200                  | 111215                                     | 111232                      | 225                                                     | 118501                                     | 416498                      |
| 250                  | 111216                                     | 111233                      | 275                                                     | 118502                                     | 416499                      |
| 290                  | 111217                                     | 111234                      | 315                                                     | 118503                                     | 416500                      |
| 350                  | 111218                                     | 111235                      | 375                                                     | 118504                                     | 416479                      |
| 380                  | 111219                                     | 111236                      | 405                                                     | 118505                                     | 416501                      |
| 410                  | 111220                                     | 111237                      | 435                                                     | 118507                                     | 416502                      |
| 500                  | 111221                                     | 111238                      | 525                                                     | 118508                                     | 416503                      |
| 530                  | 111222                                     | 111239                      | 555                                                     | 118509                                     | 416504                      |
| 630                  | 111223                                     | 111240                      | 655                                                     | 118510                                     | 416505                      |
| 710                  | 111224                                     | 111241                      | 735                                                     | 118511                                     | 416506                      |
| 800                  | 111225                                     | 111242                      | 825                                                     | 118512                                     | 416507                      |
| 1000                 | 111226                                     | 111243                      | 1025                                                    | 118979                                     | 115817                      |
| 1250                 | 111227                                     | 111244                      | 1275                                                    | 118461                                     | 115818                      |
| 1400                 | 111228                                     | 111245                      | 1425                                                    | 118462                                     | 115819                      |
| 1600                 | 111229                                     | 111246                      | 1625                                                    | 118463                                     | 115820                      |
| 1800                 | 111230                                     | 111247                      | 1825                                                    | 118464                                     | 115821                      |
| 2000                 | 111231                                     | 111248                      | 2025                                                    | 118465                                     | 115822                      |



**T22.U.4**

mit Schutzrohr Form A nach DIN 43763, 1.4749  
with thermowell form A DIN 43763, 316Ti  
avec doigt de gant forme A selon DIN 43763, Z6 CNDT 16

| T22.U.4<br>DIN 43733 |                                            |                                 | Messeinsatz<br>Measurig inserts<br>Éléments de rechange |                                            |                                 |
|----------------------|--------------------------------------------|---------------------------------|---------------------------------------------------------|--------------------------------------------|---------------------------------|
| l1<br>mm             | Bestell-Nr.<br>Order-N°.<br>N° de commande |                                 | l5<br>mm                                                | Bestell-Nr.<br>Order-N°.<br>N° de commande |                                 |
|                      | 1xFe CuNi<br>-200...+600<br>°C             | 1xNi CrNi<br>-200...+1150<br>°C |                                                         | 1xFe CuNi<br>-200...+600<br>°C             | 1xNi CrNi<br>-200...+1150<br>°C |
| 500                  | 416961                                     | 416977                          | 520                                                     | 417100                                     | 417104                          |
| 710                  | 416962                                     | 416978                          | 730                                                     | 118470                                     | 417110                          |
| 1000                 | 416963                                     | 416979                          | 1020                                                    | 417112                                     | 417116                          |
| 1400                 | 416964                                     | 416980                          | 1420                                                    | 417118                                     | 417122                          |

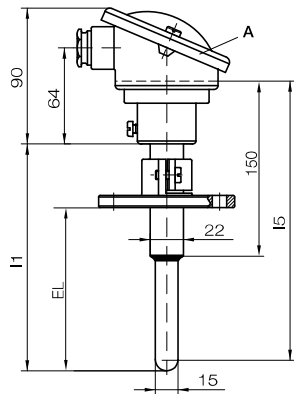


**T22.U.3**

mit Schutzrohr Form A, C 799/KER 710  
with thermowell form A, C 799/KER 710  
avec doigt de gant forme A, C 799/KER 710

| T22.U.3<br>DIN 43733 |                                            |                                | Messeinsatz<br>Measurig inserts<br>Éléments de rechange |                                            |                                |
|----------------------|--------------------------------------------|--------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------|
| l1<br>mm             | Bestell-Nr.<br>Order-N°.<br>N° de commande |                                | l5<br>mm                                                | Bestell-Nr.<br>Order-N°.<br>N° de commande |                                |
|                      | 1x Pt10Rh-Pt<br>0-1300 °C                  | 1x Pt30Rh-Pt6Rh<br>600-1400 °C |                                                         | 1x Pt10Rh-Pt<br>0-1300 °C                  | 1x Pt30Rh-Pt6Rh<br>600-1400 °C |
| 130                  | 415984                                     | 416000                         | 194                                                     | 415968                                     | 415976                         |
| 200                  | 415985                                     | 416001                         | 264                                                     | 415969                                     | 415977                         |
| 300                  | 415986                                     | 416002                         | 369                                                     | 415970                                     | 415978                         |
| 450                  | 415987                                     | 416003                         | 514                                                     | 415971                                     | 415979                         |

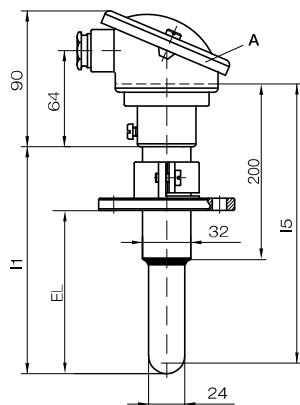
Stand: 22. 04. 2025



T22.U.2

mit Schutzrohr Form A, C 799/KER 710  
with thermowell form A, C 799/KER 710  
avec doigt de gant forme A, C 799/KER 710

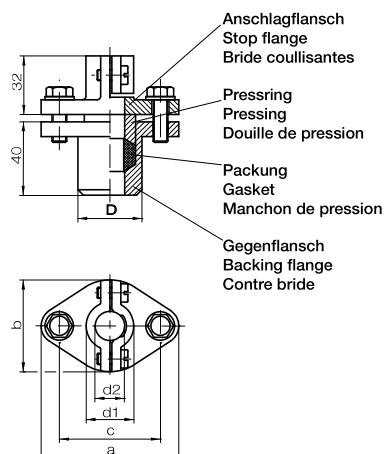
| T22.U.2<br>DIN43733 |                                            |                          |                              | Messeinsatz<br>Measurig inserts<br>Eléments de rechange |                                            |                          |                              |
|---------------------|--------------------------------------------|--------------------------|------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------|------------------------------|
| l1<br>mm            | Bestell-Nr.<br>Order-N°.<br>N° de commande |                          |                              | l5<br>mm                                                | Bestell-Nr.<br>Order-N°.<br>N° de commande |                          |                              |
|                     | 1x NiCr-Ni<br>0-1200°C                     | 1x Pt10Rh-Pt<br>0-1300°C | 1xPt30Rh-Pt6Rh<br>600-1400°C |                                                         | 1x NiCr-Ni<br>0-1200°C                     | 1x Pt10Rh-Pt<br>0-1300°C | 1xPt30Rh-Pt6Rh<br>600-1400°C |
| 500                 | 415876                                     | 415892                   | 415908                       | 520                                                     | 416946                                     | 416948                   | 416952                       |
| 710                 | 415877                                     | 415893                   | 415909                       | 730                                                     | 416992                                     | 416994                   | 416998                       |
| 1000                | 415878                                     | 415894                   | 415910                       | 1020                                                    | 417002                                     | 417004                   | 417008                       |
| 1400                | 514879                                     | 415895                   | 415911                       | 1420                                                    | 471013                                     | 417015                   | 417019                       |



T22.U.1

mit Schutzrohr Form A, C 799/KER 710  
with thermowell form A, C 799/KER 710  
avec doigt de gant forme A, C 799/KER 710

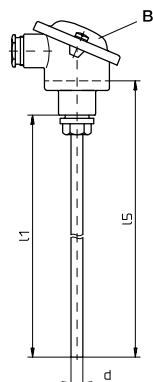
| T22.U.1<br>DIN43733 |                                            |                          |                              | Messeinsatz<br>Measurig inserts<br>Eléments de rechange |                                            |                          |                              |
|---------------------|--------------------------------------------|--------------------------|------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------|------------------------------|
| l1<br>mm            | Bestell-Nr.<br>Order-N°.<br>N° de commande |                          |                              | l5<br>mm                                                | Bestell-Nr.<br>Order-N°.<br>N° de commande |                          |                              |
|                     | 1x NiCr-Ni<br>0-1200°C                     | 1x Pt10Rh-Pt<br>0-1300°C | 1xPt30Rh-Pt6Rh<br>600-1400°C |                                                         | 1x NiCr-Ni<br>0-1200°C                     | 1x Pt10Rh-Pt<br>0-1300°C | 1xPt30Rh-Pt6Rh<br>600-1400°C |
| 500                 | 415924                                     | 415940                   | 415956                       | 520                                                     | 417023                                     | 417025                   | 417029                       |
| 710                 | 415925                                     | 415941                   | 415957                       | 730                                                     | 417038                                     | 417040                   | 417044                       |
| 1000                | 415926                                     | 415942                   | 415958                       | 1020                                                    | 417048                                     | 417050                   | 417054                       |
| 1400                | 415927                                     | 415943                   | 415959                       | 1420                                                    | 417058                                     | 417060                   | 417064                       |



| Anschlagflansch DIN 43734 mit Gegenflansch<br>Stop flanges DIN 43734 with backing flanges<br>Brides coulissantes DIN 43734 avec contre brides |    |    |    |    |    |    |                                                        |                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|----|----|--------------------------------------------------------|--------------------------------------------------|
| für Halterrohr<br>for protection tube<br>pour diamètre                                                                                        | a  | b  | c  | d1 | d2 | D  | Anschlagflansch<br>Stop flanges<br>Brides coulissantes | Gegenflansch<br>Backing flanges<br>Contre brides |
| mm                                                                                                                                            |    |    |    |    |    |    |                                                        |                                                  |
| 15                                                                                                                                            | 75 | 50 | 55 | 26 | 16 | 35 | 110843                                                 | 415067                                           |
| 22                                                                                                                                            | 90 | 65 | 70 | 33 | 23 | 40 | 110844                                                 | 415068                                           |
| 24                                                                                                                                            |    |    |    | 35 | 25 | 45 | 110845                                                 | 415069                                           |
| 32                                                                                                                                            |    |    |    | 43 | 33 | 50 | 110846                                                 | 415070                                           |

**T21  
T22**

# Thermoelemente Thermocouples Thermocouples



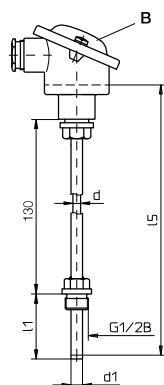
**T21.U.9**

ohne zusätzliches Schutzrohr<sup>1)</sup>  
without thermowell<sup>1)</sup>  
sans doigt de gant<sup>1)</sup>

<600°C = 1.4571, 316Ti, Z6 CNDT 17-12  
>600°C = Inconel 600®, 2.4816, Ni15Fe

| T21.U.9<br>DIN 43769 |                                            |                             | Messeinsatz<br>Measurig inserts<br>Éléments de rechange |   |                                            |                             |
|----------------------|--------------------------------------------|-----------------------------|---------------------------------------------------------|---|--------------------------------------------|-----------------------------|
| l1<br>mm             | Bestell-Nr.<br>Order-N°.<br>N° de commande |                             | l5                                                      | d | Bestell-Nr.<br>Order-N°.<br>N° de commande |                             |
|                      | 1x Fe-CuNi<br>-200 - +600°C                | 1x NiCr-Ni<br>-200 - +800°C |                                                         |   | 1x Fe-CuNi<br>-200 - +600°C                | 1x NiCr-Ni<br>-200 - +800°C |
| 150                  | 111171                                     | 111189                      | 175                                                     | 6 | 118473                                     | 115803                      |
| 200                  | 111172                                     | 111190                      | 225                                                     |   | 118483                                     | 115805                      |
| 250                  | 111173                                     | 111191                      | 275                                                     |   | 118486                                     | 115806                      |
| 290                  | 111174                                     | 111192                      | 315                                                     |   | 118487                                     | 115807                      |
| 350                  | 111175                                     | 111193                      | 375                                                     |   | 118489                                     | 115808                      |
| 380                  | 111176                                     | 111194                      | 405                                                     |   | 118490                                     | 115809                      |
| 410                  | 111177                                     | 111195                      | 435                                                     |   | 118492                                     | 114811                      |
| 500                  | 111178                                     | 111196                      | 525                                                     |   | 118495                                     | 115812                      |
| 530                  | 111179                                     | 111197                      | 555                                                     |   | 118496                                     | 115813                      |
| 630                  | 111180                                     | 111198                      | 655                                                     |   | 118497                                     | 115814                      |
| 710                  | 111181                                     | 111199                      | 735                                                     | 8 | 118498                                     | 115815                      |
| 800                  | 111182                                     | 111200                      | 825                                                     |   | 118499                                     | 115816                      |
| 1000                 | 111183                                     | 111201                      | 1025                                                    |   | 118979                                     | 115817                      |
| 1250                 | 111184                                     | 111202                      | 1275                                                    |   | 118461                                     | 115818                      |
| 1400                 | 111185                                     | 111203                      | 1425                                                    |   | 118462                                     | 115819                      |
| 1600                 | 111186                                     | 111204                      | 1625                                                    |   | 118463                                     | 115820                      |
| 1800                 | 111187                                     | 111205                      | 1825                                                    |   | 118464                                     | 115821                      |
| 2000                 | 111188                                     | 111206                      | 2025                                                    |   | 118465                                     | 115822                      |

<sup>1)</sup> Quetschringverschraubungen und Kugel- Quetschdichtungen siehe Seite: 11.3402  
Compression fittings and ball compression seals see page: 11.3402  
Raccord coulissant et Joint sphérique à compression: 11.3402



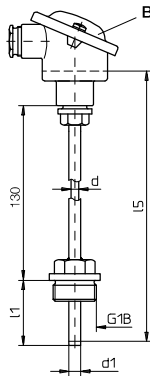
**T21.U.5**

mit Schutzrohr Form B nach DIN 43772, 1.4571  
with thermowell form B DIN 43772, 316Ti  
avec doigt de gant forme B selon DIN 43772, Z6 CNDT 17-12

| T21.U.5<br>DIN 43765 |    |                                            |                             | Messeinsatz<br>Measurig inserts<br>Eléments de rechange |   |                                            |                             |
|----------------------|----|--------------------------------------------|-----------------------------|---------------------------------------------------------|---|--------------------------------------------|-----------------------------|
| l1                   | d1 | Bestell-Nr.<br>Order-N°.<br>N° de commande |                             | l5                                                      | d | Bestell-Nr.<br>Order-N°.<br>N° de commande |                             |
| mm                   |    | 1x Fe-CuNi<br>-200 - +600°C                | 1x NiCr-Ni<br>-200 - +800°C | mm                                                      |   | 1x Fe-CuNi<br>-200 - +600°C                | 1x NiCr-Ni<br>-200 - +800°C |
| 65                   | 9  | 111249                                     | 111269                      | 220                                                     | 6 | 118476                                     | 115804                      |
| 70                   |    | 111250                                     | 111270                      | 225                                                     |   | 118483                                     | 115805                      |
| 120                  |    | 111251                                     | 111271                      | 275                                                     |   | 118486                                     | 115806                      |
| 160                  |    | 111252                                     | 111272                      | 315                                                     |   | 118487                                     | 115807                      |
| 220                  |    | 111253                                     | 111273                      | 375                                                     |   | 118489                                     | 115808                      |
| 250                  |    | 111254                                     | 111274                      | 405                                                     |   | 118490                                     | 115809                      |
| 275                  |    | 111255                                     | 111275                      | 430                                                     |   | 118491                                     | 115810                      |
| 280                  |    | 111256                                     | 111276                      | 435                                                     |   | 118492                                     | 115811                      |
| 370                  |    | 111257                                     | 111277                      | 525                                                     |   | 118495                                     | 115812                      |
| 400                  |    | 111258                                     | 111278                      | 555                                                     |   | 118496                                     | 115813                      |
| 500                  | 11 | 111259                                     | 111279                      | 655                                                     | 8 | 118497                                     | 115814                      |
| 580                  |    | 111260                                     | 111280                      | 735                                                     |   | 118498                                     | 115815                      |
| 670                  |    | 111261                                     | 111281                      | 825                                                     |   | 118499                                     | 115816                      |
| 870                  |    | 111262                                     | 111282                      | 1025                                                    |   | 118979                                     | 115817                      |
| 1120                 |    | 111263                                     | 111283                      | 1275                                                    |   | 118461                                     | 115818                      |
| 1270                 |    | 111264                                     | 111284                      | 1425                                                    |   | 118462                                     | 115819                      |
| 1470                 |    | 111265                                     | 111285                      | 1625                                                    |   | 118463                                     | 115820                      |
| 1670                 |    | 111266                                     | 111286                      | 1825                                                    |   | 118464                                     | 115821                      |
| 1870                 |    | 111267                                     | 111287                      | 2025                                                    |   | 118465                                     | 115822                      |

# Thermoelemente Thermocouples Thermocouples

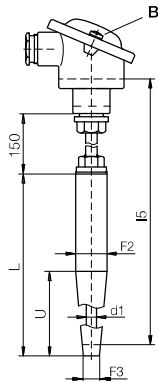
# T21 T22



**T21.U.6**

mit Schutzrohr Form 2G nach DIN 43772, 1.4571  
with thermowell form C DIN 43772, 316Ti  
avec doigt de gant forme C selon DIN 43772, Z6 CNDT 17-12

| T21.U.6<br>DIN 43766 |    |                                           |                             | Messeinsatz<br>Measuring inserts<br>Eléments de rechange |   |                                           |                             |
|----------------------|----|-------------------------------------------|-----------------------------|----------------------------------------------------------|---|-------------------------------------------|-----------------------------|
| l1                   | d1 | Bestell-Nr.<br>Order-N°<br>N° de commande |                             | l5                                                       | d | Bestell-Nr.<br>Order-N°<br>N° de commande |                             |
| mm                   |    | 1x Fe-CuNi<br>-200 - +600°C               | 1x NiCr-Ni<br>-200 - +800°C | mm                                                       |   | 1x Fe-CuNi<br>-200 - +600°C               | 1x NiCr-Ni<br>-200 - +800°C |
| 65                   | 11 | 111289                                    | 111309                      | 220                                                      | 6 | 118476                                    | 115804                      |
| 70                   |    | 111290                                    | 111310                      | 225                                                      |   | 118483                                    | 115805                      |
| 120                  |    | 111291                                    | 111311                      | 275                                                      |   | 118486                                    | 115806                      |
| 160                  |    | 111292                                    | 111312                      | 315                                                      |   | 118487                                    | 115807                      |
| 220                  |    | 111293                                    | 111313                      | 375                                                      |   | 118489                                    | 115808                      |
| 250                  |    | 111294                                    | 111314                      | 405                                                      |   | 118490                                    | 115809                      |
| 275                  |    | 111295                                    | 111315                      | 430                                                      |   | 118491                                    | 115810                      |
| 280                  |    | 111296                                    | 111316                      | 435                                                      |   | 118492                                    | 115811                      |
| 370                  |    | 111297                                    | 111317                      | 525                                                      |   | 118495                                    | 115812                      |
| 400                  |    | 111298                                    | 111318                      | 555                                                      |   | 118496                                    | 115813                      |
| 500                  |    | 111299                                    | 111319                      | 655                                                      |   | 118497                                    | 115814                      |
| 580                  | 14 | 111300                                    | 111320                      | 735                                                      | 8 | 118498                                    | 115815                      |
| 670                  |    | 111301                                    | 111321                      | 825                                                      |   | 118499                                    | 115816                      |
| 870                  |    | 111302                                    | 111322                      | 1025                                                     |   | 118979                                    | 115817                      |
| 1120                 |    | 111303                                    | 111323                      | 1275                                                     |   | 118461                                    | 115818                      |
| 1270                 |    | 111304                                    | 111324                      | 1425                                                     |   | 118462                                    | 115819                      |
| 1470                 |    | 111305                                    | 111325                      | 1625                                                     |   | 118463                                    | 115820                      |
| 1670                 |    | 111306                                    | 111326                      | 1825                                                     |   | 118464                                    | 115821                      |
| 1870                 |    | 111307                                    | 111327                      | 2025                                                     |   | 118465                                    | 115822                      |



**T21.U.7**

mit Schutzrohr Form 4 nach DIN 43772, 1.4571  
with thermowell form 4 DIN 43772, 316Ti  
avec doigt de gant forme 4 selon DIN 43772, Z6 CNDT 17-12

| T21.U.7<br>DIN 43767    |     |     |    |      |                                            |                            | Messeinsatz<br>Measurig inserts<br>Eléments de rechange |    |                                            |                            |
|-------------------------|-----|-----|----|------|--------------------------------------------|----------------------------|---------------------------------------------------------|----|--------------------------------------------|----------------------------|
| Form<br>Design<br>Forme | U   | L   | F2 | F3   | Bestell-Nr.<br>Order-N°.<br>N° de commande |                            | l5                                                      | d1 | Bestell-Nr.<br>Order-N°.<br>N° de commande |                            |
|                         | mm  |     |    |      | 1xFe-CuNi<br>-200...+600°C                 | 1xNiCr-Ni<br>-200...+800°C | mm                                                      |    | 1xFe-CuNi<br>-200...+600°C                 | 1xNiCr-Ni<br>-200...+800°C |
| 4                       | 65  | 140 | 24 | 12,5 | 111207                                     | 111211                     | 315                                                     | 6  | 118487                                     | 115807                     |
|                         | 125 | 200 |    |      | 111208                                     | 111212                     | 375                                                     |    | 118489                                     | 115808                     |
|                         | 65  |     |    |      | 111209                                     | 111213                     |                                                         |    | 118489                                     | 115808                     |
|                         | 125 |     | 26 | 15,0 | 111210                                     | 111214                     | 430                                                     | 8  | 118504                                     | 416479                     |
|                         |     | 255 |    |      | 111333                                     | 111335                     |                                                         |    | 118506                                     | 416480                     |
|                         |     | 260 |    |      | 24                                         | 12,5                       | 111334                                                  |    | 111336                                     | 435                        |

| Ergänzungsartikel<br>Optional extras<br>Options                 | Bestell-Nr.<br>Order-N°.<br>N° de commande |         |
|-----------------------------------------------------------------|--------------------------------------------|---------|
|                                                                 | T21/T22                                    | T41/T46 |
| Einbaulänge vom Standard abweichend                             | 396011                                     | 396011  |
| Useful length divergent to standard                             |                                            |         |
| Longueur utile divergent de le standard                         |                                            |         |
| Halsrohr 30 mm lang                                             | 395731                                     | -       |
| Neck extension, length 30 mm                                    |                                            |         |
| Tube extension, longueur 30 mm                                  |                                            |         |
| Halsrohr 60 mm lang                                             | 395732                                     | -       |
| Neck extension, length 60 mm                                    |                                            |         |
| Tube extension, longueur 60 mm                                  |                                            |         |
| Halsrohr 90 mm lang                                             | 395733                                     | -       |
| Neck extension, length 90 mm                                    |                                            |         |
| Tube extension, longueur 90 mm                                  |                                            |         |
| Halsrohr 250 mm lang                                            | 395873                                     | -       |
| Neck extension, length 250 mm                                   |                                            |         |
| Tube extension, longueur 250 mm                                 |                                            |         |
| Halsrohrlänge vom Standard abweichend                           | 396010                                     | -       |
| Neck extension length divergent to standard                     |                                            |         |
| Longuer du tube extension divergent de le standard              |                                            |         |
| Schutzrohr auf 6mm abgesetzt, 60mm lang                         | 396115                                     | -       |
| Thermowell at 6mm set down, length 60mm                         |                                            |         |
| Doigt de grant déposer 6mm, longueur 60mm                       |                                            |         |
| Thermopaar nach DIN EN 60584 2x Fe-CuNi Typ (J)                 | 395880                                     | -       |
| Thermocouple per DIN EN 60584 2x Fe-CuNi type (J)               |                                            |         |
| Thermocouple selon DIN EN 60584 2x Fe-CuNi type (J)             |                                            |         |
| Doppel-Thermopaar nach DIN EN 60584 2x Fe-CuNi Typ (J)          | 396021                                     | 396021  |
| Dual thermocouple per DIN EN 60584 2x Fe-CuNi type (J)          |                                            |         |
| Thermocouple double selon DIN EN 60584 2x Fe-CuNi type (J)      |                                            |         |
| Doppel-Thermopaar nach DIN EN 60584 2x NiCr-Ni Typ (K)          | 395889                                     | 395889  |
| Dual thermocouple per DIN EN 60584 2x NiCr-Ni type (K)          |                                            |         |
| Thermocouple double selon DIN EN 60584 2x NiCr-Ni type (K)      |                                            |         |
| Thermopaar nach DIN EN 60584 Pt13Rh-Pt Typ (R)                  | 395881                                     | 395881  |
| Thermocouple per DIN EN 60584 Pt13Rh-Pt type (R)                |                                            |         |
| Thermocouple selon DIN EN 60584 Pt13Rh-Pt type (R)              |                                            |         |
| Doppel-Thermopaar nach DIN EN 60584 2x Pt13Rh-Pt Typ (R)        | 396022                                     | 396022  |
| Dual thermocouple per DIN EN 60584 2x Pt13Rh-Pt type (R)        |                                            |         |
| Thermocouple double selon DIN EN 60584 2x Pt13Rh-Pt type (R)    |                                            |         |
| Thermopaar nach DIN EN 60584 Pt10Rh-Pt Typ (S)                  | 396520                                     | -       |
| Thermocouple per DIN EN 60584 Pt10Rh-Pt type (S)                |                                            |         |
| Thermocouple selon DIN EN 60584 Pt10Rh-Pt type (S)              |                                            |         |
| Doppel-Thermopaar nach DIN EN 60584 2x Pt10Rh-Pt Typ (S)        | 396521                                     | -       |
| Dual thermocouple per DIN EN 60584 2x Pt10Rh-Pt type (S)        |                                            |         |
| Thermocouple double selon DIN EN 60584 2x Pt10Rh-Pt type (S)    |                                            |         |
| Thermopaar nach DIN EN 60584 Pt30Rh-Pt6Rh Typ (B)               | 396522                                     | -       |
| Thermocouple per DIN EN 60584 Pt30Rh-Pt6Rh type (B)             |                                            |         |
| Thermocouple selon DIN EN 60584 Pt30Rh-Pt6Rh type (B)           |                                            |         |
| Doppel-Thermopaar nach DIN EN 60584 2x Pt30Rh-Pt6Rh Typ (B)     | 396523                                     | -       |
| Dual thermocouple per DIN EN 60584 2x Pt30Rh-Pt6Rh type (B)     |                                            |         |
| Thermocouple double selon DIN EN 60584 2x Pt30Rh-Pt6Rh type (B) |                                            |         |
| Thermopaar nach DIN 43710 Fe-CuNi Typ (L)                       | 396524                                     | -       |
| Thermocouple per DIN 43710 Fe-CuNi type (L)                     |                                            |         |
| Thermocouple selon DIN 43710 Fe-CuNi type (L)                   |                                            |         |
| Doppel-Thermopaar nach DIN 43710 2x Fe-CuNi Typ (L)             | 396525                                     | -       |
| Dual thermocouple per DIN 43710 2x Fe-CuNi type (L)             |                                            |         |
| Thermocouple double selon DIN 43710 2x Fe-CuNi type (L)         |                                            |         |

| Ergänzungsartikel<br>Optional extras<br>Options                                      | Bestell-Nr.<br>Order-N°.<br>N° de commande |        |         |        |
|--------------------------------------------------------------------------------------|--------------------------------------------|--------|---------|--------|
|                                                                                      | T53                                        | T61    | T63.5/6 | T81    |
| Nennlänge vom Standard abweichend                                                    | 396242                                     | 396242 | -       | -      |
| Length divergent to standard                                                         |                                            |        |         |        |
| Longueur divergent de le standard                                                    |                                            |        |         |        |
| Ausgleichsleitung Fe-CuNi (J), Silicon / Keramik / Glasseide / Edelstahl             | 396517                                     | -      | -       | 396517 |
| Compensating cable Fe-CuNi (J), silicon / ceramic / glas silk / stainless steel      |                                            |        |         |        |
| Câble de compensation Fe-CuNi (J), silicone / céramique / soie de verre / acier inox |                                            |        |         |        |
| Ausgleichsleitung Fe-CuNi (L), Silicon / Keramik / Glasseide / Edelstahl             | 396518                                     | 396518 | -       | 396518 |
| Compensating cable Fe-CuNi (L), silicon / ceramic / glas silk / stainless steel      |                                            |        |         |        |
| Câble de compensation Fe-CuNi (L), silicone / céramique / soie de verre / acier inox |                                            |        |         |        |
| Ausgleichsleitung NiCr-Ni (K), Silicon / Keramik / Glasseide / Edelstahl             | 396519                                     | 396519 | 396519  | 396519 |
| Compensating cable NiCr-Ni (K), silicon / ceramic / glas silk / stainless steel      |                                            |        |         |        |
| Câble de compensation NiCr-Ni (K), silicone / céramique / soie de verre / acier inox |                                            |        |         |        |