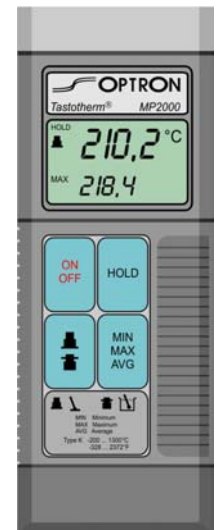


## Digital thermometer NiCr-Ni

### Digital thermometer MP 2000

**Measuring range:** -200°C ... +1300°C / -328 ... 2372°F  
**Resolution:** -50°C to 399.9°C: 0.1K; 1K otherwise  
**Accuracy:** for instrument's temperature of 15...30°C: 0.4K + 0.1% of the absolute value of the measured temperature in °C + 1 Digit;  
 otherwise: 1K + 0.2% of the absolute value of the measured temperature in °C + 1 Digit  
**Repeatability:** 0.3K + 1 Digit at constant instrument's temperature  
**Sample rate:** display: 3 readings per sec.; interface RS232: 1 reading per second  
**Interface:** RS 232C (4800bps)  
**Display:** LCD 2x4 digits  
**Functions:** HOLD, surface or immersion measurement, MIN-, MAX-, AVG-function, °C or °F  
**Plug-style:** thermocouple mini-plug acc. to ISA-standard (Typ K)  
**Power supply:** 9V battery, battery life approx. 70h (battery control: warning symbol in the display)  
**Operating temp.:** 0 ... 50°C at housing  
**Dimensions:** 180 x 70 x 28 mm (l x w x h)  
**Weight:** approx. 270g incl. battery  
**Order number:** 3740300  
**Price:** 173,50 €



### Accessories:

- |  |         |         |   |         |         |
|--|---------|---------|---|---------|---------|
| • PortaWin software incl. connection cable | 3749810 | 64,00 € | • heat conductive-paste, 10ml, up to 200°C, silicone free | 3749500 | 9,00 €  |
| • hard case, grey, 380x100x230mm (lxwxh)   | 131400  | 34,00 € | • rechargeable battery (NiMH), 9V                         | 3749150 | 23,00 € |
| • Softcase for MP 2000                     | 3749680 | 28,50 € | • battery, 9V   | 3749140 | 6,00 €  |

### Special probes for surface measurement

**WO 1301** Cylinder probe up to 250°C; spring-clamped thermocouple for cylindrical objects, response time: 2s; spiral cabel: 1,5m  
 WO 1301 3741080 167,00 €

**GO 1301** Fast response surface probe up to 500°C; response time: 1-2s; spiral cabel: 1,5m  
 GO 1301 3741130 200,00 €

**HO 1301a** Right angle fast response surface probe up to 300°C; response time: 1-2s; spiral cabel: 1,5m  
 HO 1301a 3741140 225,00 €

**HO 1301b / c** Right angle fast response surface probes up to 500°C; response time: 1-2s; spiral cabel: 1,5m; HO1301b=100mm / HO1301c=200mm  
 HO 1301b 3741090 229,00 €  
 HO 1301c 6001004 266,00 €

**RO 2000** Roller surface probe up to 200°C, for running cylinders or sheets up to 200m/min; response time: 3.5s; cabel: 1,8m  
 RO 2000 3741190 311,00 €

**EO 1301** Micro band surface probe for extrem small surfaces like electronical devices up to 400°C; probe dimensions: 1x3mm; response time: 1s; cabel: 1m; connector: miniatur-thermocouple-plug (Typ K, yellow)  
 EO 1301 3741160 177,00 €

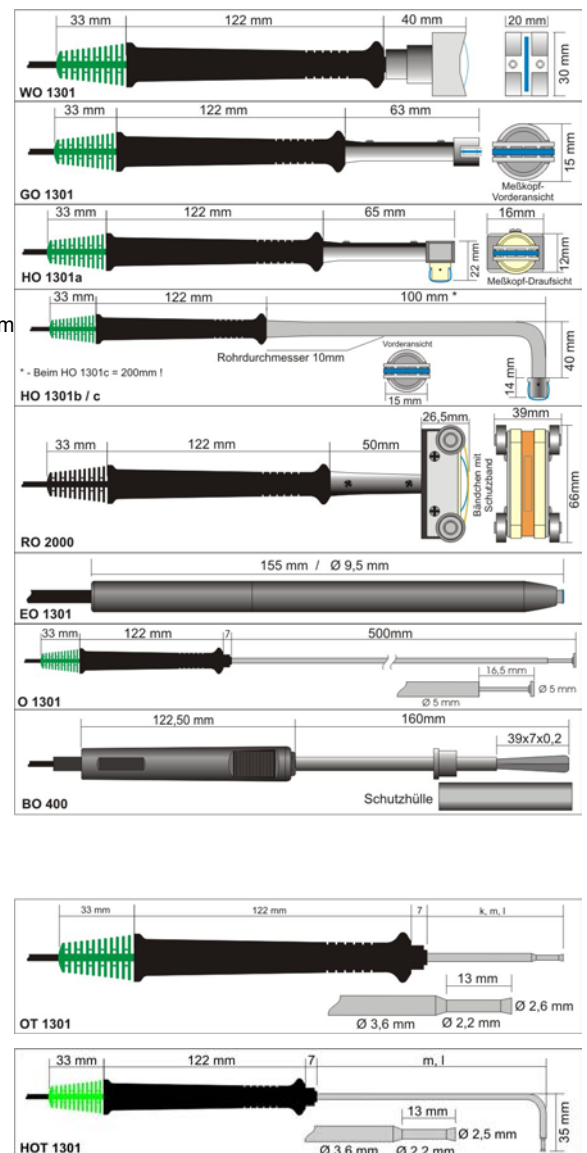
**O 1301** Standard probe up to 1100°C (short time up to 1200°C). response time: 12s; spiral cabel: 1,5m  
 O 1301 3741180 182,00 €

**BO 400** for very precision surface measuring, expecially in narrow slots; Response time: 2s; measuring range: -50° ... +400°C; cabel: 1m; connector: miniatur-thermocouple-plug (Typ K, yellow)  
 BO 400 6001003 118,00 €

### Probes for surface and immersion measurements in combination

**OT 1301** 1 probe = 2 functions  
 Standard probes up to 600°C, for immersion short term up to 800°C; response time: 5s; spiral cabel: 1,5 m; available in 3 different lengths:  
 OT 1301 k 60mm 3741020 92,00 €  
 OT 1301 m 150mm 3741210 97,00 €  
 OT 1301 l 250mm 3741010 103,00 €

**HOT 1301** for measuring of places difficult to access; response time: 5s; spiral cabel: 1,5m  
 HOT 1301 m 135mm 3741170 113,00 €  
 HOT 1301 l 210mm 3741030 118,00 €



All prices exclusive of VAT. – Jan-11

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min. order value: 30,- €

Documentation-Stand: 25/01/2011

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## Digital thermometer NiCr-Ni

### Special probes for immersion measurement only

Whether gaseous, liquid or plastic media → everytime the right probe for your application ! (Tolerance class 1 acc. To DIN IEC 584)  
All probes with miniatur-thermocouple-connector (Type K; yellow).

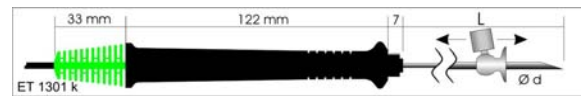
**BT 1301** Flexible mineral insulated probe; Inconel sheath; very robust; up to 1100°C (short time up to 1200°C); response time: 5s; spiral cabel: 1.5m  
BT 1301      3741040      146,00 €



**BT 1301d** Extremely thin and fast, flexible mineral insulated probe; Inconel sheath; up to 1100°C (short time up to 1200°C); response time: 0.5s; spiral cabel: 1,5m  
BT 1301d      3741050      164,00 €



**ET 1301k** Puncture probe up to 600°C with slant tipped sheath and adjustable depth gauge for measurement of plastic media; length: L=75mm; diameter sheath: d=2 mm; response time: 3s; spiral cabel: 1,5m  
ET 1301k      3741060      114,00 €

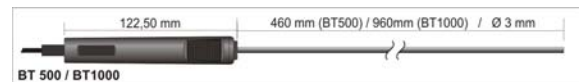


**ET 1301** like ET 1301 k however without adjustable gauge; length: L=150mm; diameter sheath: d=3 mm; response time: 3s; spiral cable 1,5m  
ET 1301      3741070      122,00 €

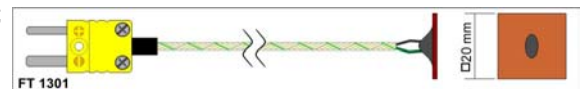
**ET 400** Robust puncture probe up to 400°C for bitumen-material etc. Stainless sheath; response time: 8s; spiral cable: 1m  
ET 400      6001055      107,00 €



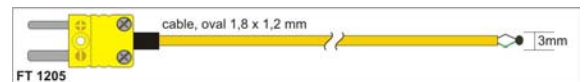
**BT 500** economically priced flexibel mineral insulated probe; Inconel sheath; measuring range: -50 ... 1100°C; response time: 8s; Cabel: 2m PVC with miniatur-thermocouple-connector  
BT 500      130500      129,00 €  
BT1000      1301000      136,50 €



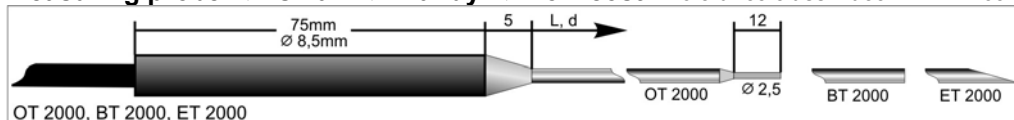
**FT 1301** flexibel thermocouple probe for measuring in ovens etc. up to 350°C; acc. DIN 44547; cable: 2m thermal cable, glass fibre insulated  
FT 1301      3758270      52,00 €



**FT 1205** Exposed thermocouple element, thermal wire teflon insulated up to 200°C; cable: 2m thermal cable (oval cable 1.8 x 1.2 mm; thermal cable diameter: 0,2mm)  
FT 1205      700208      6,50 €



### Measuring probe ► small ► handy ► low cost: Tolerance class 1 acc. DIN IEC 584



**OT 2000** immersion probe up to 600°C; response time: 5s; cabel. 1,5m; L=150mm; d=3,6mm  
3759110      81,00 €

**BT 2000** Mineral-insulated thermocouple for immersion measuring up to 1100°C; response time: 3s; cabel: 1,5m; L=500mm; d=1,5mm  
3759140      74,00 €

**ET 2000** puncture or immersion probe with slant tipped sheath; up to 600°C; response time: 5s; cabel:1,5m; L=150mm; d=3mm  
3759130      106,00 €

### Accessories:

Miniatur thermoelement connector, type K (yellow), male	131065	4,00 €
Miniatur thermoelement connector, type K (yellow), female	131070	4,00 €
Extension cable, 5 m	3749420	56,00 €
thermal wire glass fibre insulated, type K (NiCr-Ni) dimensions outer: 2x0,5mm oval / inner: 2x0,5mm <sup>2</sup> , massive	131159	3,80 € per meter

All prices exclusive of VAT. – Jan-11

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