

Probes for Industrial Applications

Beta Technology provides a variety of conductivity probes designed for numerous industrial applications. This data sheet provides detailed information such as cell constant (K factor), electrode material, maximum operating temperature and physical installation information. Important considerations when selecting a probe are:

Solution Concentration - Knowing the actual conductance in micro-mhos/micro-siemens is necessary in order to select an appropriate cell constant. This ensures optimum performance of the conductivity controller used in the application.

Solution Temperature - to ensure that maximum probe operating temperatures are not exceeded.

Solution Temperature Stability - determines whether a temperature compensated probe might be necessary for the application.

Electrode Material - Stainless steel electrodes are suitable for many cleaning, acid sanitizing, metals processing, agricultural, and water treatment applications. Carbon electrodes are often better suited for more caustic applications and hard water conditions. Nickel Hastelloy C electrodes are more suitable for heavier acid concentrations.

Probe Mounting - for determining probe mounting method, such as bulkhead, in-line, dip-in or submersible.



**CTP1104 Conductivity/
Temperature Probe, Bulkhead
Mount**

K=0.4

Thermistor Rating: 30,000 ohms
at 25°C

Fits In: 7/8" Hole

Body Material: Polypropylene

Electrode Material: 303
Stainless Steel

Connector: 15' Cable

Maximum Temperature: 100°C

Item No. 099926



**CP3408 Conductivity Probe
w/Bulkhead Mount**

K=1.4

Fits In: 7/8" Hole

Body Material: Polypropylene

Electrode Material: Carbon,
Embedded in Epoxy Resin

Cable Length: 12' (No Connector)

Maximum Temperature: 75°C

Item No. 018069



**CTP3150 Conductivity/
Temperature Probe, Dip-in or
Bulkhead Mount, w/Cleaning
Brush**

K=5.0

Thermistor Rating: 30,000 ohms
at 25°C

Body Material: CPVC and
Polypropylene w/40% Glass Filler

Electrode Material: Carbon
(Recommended for Caustics)

Connector: 15' Cable

Maximum Temperature: 90°C

Item No.087671

(Bulkhead Mount Kits Available)



**CTP3250 Conductivity/
Temperature Probe, Dip-in or
Bulkhead Mount w/Cleaning
Brush**

K=5.0

Thermistor Rating: 30,000 ohms
at 25°C

Body Material: CPVC and
Polypropylene w/40% Glass Filler

Electrode Material: Nickel
Hastelloy C

Connector: 15' Cable

Maximum Temperature: 90°C

Item No.087670

(Bulkhead Mount Kits Available)



CP3300 Conductivity Probe Kit, Bulkhead Mount
K=0.4
Fits In: 7/8" hole
Body Material: Polypropylene
Electrode Material: Stainless Steel
Connector: 12' Cable
Maximum Temperature: 100°C
Item No. 035835



CTP2150 Conductivity/Temperature Probe, Bulkhead Mount
K=5.0
Thermistor Rating: 30,000 ohms at 25°C
Fits In: Two 1/4" NPT Holes
Electrode Material: Nickel Hastelloy C
Connector: 15' Cable
Maximum Temperature: 100°C
Item No. 035712



DB100 Conductivity/Temperature Probe
K=0.4
Thermistor Rating: 30,000 ohms at 25°C
Body Material: 2' CPVC w/Mounting Bracket
Electrode Material: Stainless Steel
Connector: 15' Cable
Maximum Temperature: 100°C
Item No. 096455



CTP3405 3A Approved Conductivity Probe, Temperature Compensated, Bulkhead Mount
K=1.0
Thermistor Rating: 30,000 ohms at 25°C
Body Material: Nylon
Electrode Material: Stainless Steel
Connector: 50.5' Cable, Tri-clover Fitting
Maximum Temperature: 100°C
Item No. 069032



TP2100 Temperature Probe, Bulkhead Mount
Thermistor Rating: 30,000 ohms at 25°C
Fits In: 1/8" NPT
Body Material: Steel
Element Material: 304 Stainless Steel
Connector: 15' Cable
Maximum Temperature: 100°C
Item No. 087677

TP1100 Temperature Probe, Dip-in Type
Thermistor Rating: 30,000 ohms at 25°C
Body Material: 30" Long CPVC
Electrode Material: 304 Stainless Steel Thermistor
Connector: 12' Cable
Maximum Temperature: 100°C
Item No. 087672



CTP3407 Conductivity/Temperature Probe, Bulkhead Mount
K=1.0
Thermistor Rating: 30,000 ohms at 25°C
Body Material: Nylon
Electrode Material: Stainless Steel
Connector: 50.5' Cable
Maximum Temperature: 100°C
Item No. 069031



Beta Technology, Inc
 2841 Mission Street
 Santa Cruz • CA
 U.S.A. • 95060

TEL • 831 • 426 • 0882
 TEL • 800 • 858 • 2382
 FAX • 831 • 423 • 4573
 FAX • 800 • 221 • 8416

Customer Service

TEL (U.S. and Canada) • 800 • 468 • 4893
 TEL (outside U.S. and Canada) • 410 • 228 • 1292

Tech Support

sales@beta-technology.com

Beta Technology, Inc
 4 Finway, Dallow Road
 Luton LU1 1TR
 United Kingdom

Freephone • 0800 • 052 • 4726
 Tel • +44(0) • 1582 • 528600
 Fax • +44(0) • 1582 • 528111
 Freephone • 0800 • 052 • 4726
 VAT REG.NO.BG.354 - 09975 - 44

Customer Service

europa.sales@beta-technology.com

Online Ordering: <http://www.beta-technology.com>

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