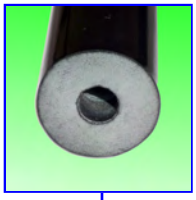
AWE

Model D1-10 & D1-100

Dip Conductivity Cells



- High Accuracy Cell Constant.
- High Linearty Measurment
- Withstands Solutions up to 100°C.
- High Quality Sensor.
- Detachable Connector or Fixed Cable
- Cell K = 1.0 or K = 10.0
- Option for Built in Auto Temp
- Optional PVDF or SS Riser Tube

The Model D1-10 and D1-100. Conductivity cells are designed for the measurement of Electrolytic Conductivity in vented process tanks, sumps and open channels.

The Model D1-10 and D1-100. Cells are high linearity cells with very accurate cell constants. Featuring three accurately, machined graphite electrodes mounted in an epoxy body.

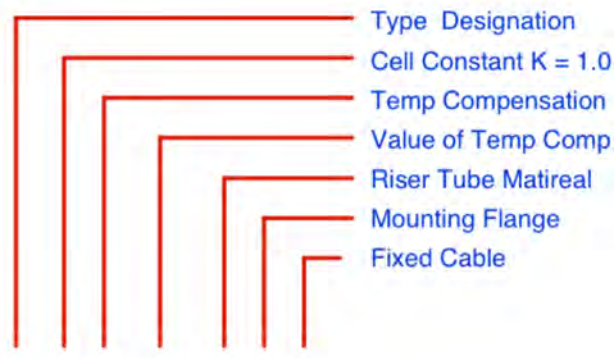
The Model D1-10 and D1-100. Conductivity cells are constructed from PVDF (kynar) and epoxy resin with carbon electrodes with cPVC, PVDF (kynar) or stainless steel riser tubes for greater chemical and thermal resistance. Normal mounting is by clipping the cell into two pipe clips. However, mounting flanges in PVC or polypropylene are available.

The Model D1-10 and D1-100. Conductivity cells maybe supplied with automatic temperature compensation to suit most popular manufacturers conductivity instruments.

Typical applications include the control of heated rinse waters, solution strengths control of acid or alkaline process solutions and, CIP solution strength control in the food and brewing industries. Cell constants of k = 1.0 and k = 10.0 allow much higher conductivities to be measured and controlled

Standard riser tube length is 600 mm with other lengths to order, detachable connectors are fitted to the cell heads for ease of servicing fixed leads are available for use with portable and laboratory instruments. Longer cable lengths are available for remote mounting.

Cell Types



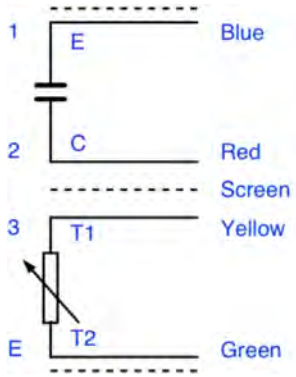
D1-10 -T- Pt100 - cP - F - C

Specifications

D1-10 & D1-100 Conductivity Cells

Materials of Construction	Epoxy resin & graphite With cPVC riser tube option for PVDF or SS riser tube
Cell constant	Manufactured with K = 1.0 and K = 10.0
Max temp.	cPVC 85^{o}C PVDF & Stainless Steel 100^{o} C
Auto temperature compensation	Mounted into the cell to suit the instrument in use
Measurement range	With our models C7635 and C7335 K = 1.0 upto 100.0 mS & K = 10.0 upto 1000.0 mS
Mounting	By Makro clip PVC or Polyprop flange if specified.
Length	Standard 600 mm others to order
Connections	Fixed cable or demountable connector

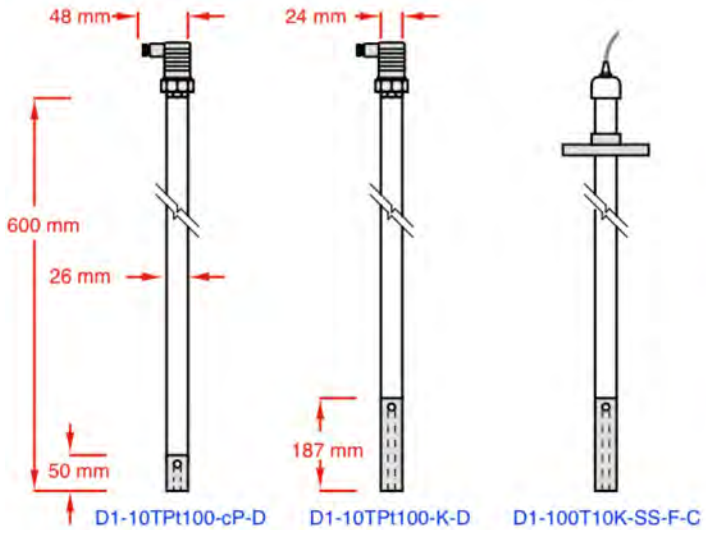
Connections



Use LMK2 cable for cells without Auto Temp Comp for cells with auto temp comp fitted used LMK4 connectiong cable. The screen should be earthed at the instrument but not connected at the cell end max cable length 25 metres

Cells which have fixed cables will have the same colour code and either LMK2 two core cable for cells without ATC or LMK4 four core cable for cells with ATC.

Dimensions



D1-10TPt100-cP-D
D1 Series cell with k= 1.0 ATC by Pt100 sensor
Fitted cPVC riser tube and demountable connector

D1-10oTPt100-cP-D
D1 Series cell with k= 10.0 ATC by Pt100 sensor
Fitted kynar (PVDF) riser tube and demountable connector

D1-100T10k-SS-C
D1 Series cell with k= 10.0 ATC by 10KΩ sensor
Fitted SS riser tube and fixed cable

Feb 2013

AWE
Automated Water & Effluent Ltd
AWE House Antom Court, Tollgate Drive, Beaconside, Stafford, ST16 3AF UK.
Tel: 01785 254597 Fax: 01785 257724
www.awe-ltd.co.uk email sales@awe-ltd.co.uk