

# TBLR Series Small Diameter Cells



## Description

The TBLR conductivity cell is ideal for insertion, immersion and flow through applications. The small diameter of the cell means that the interference by the cell on process flow is minimised which is particularly useful in small diameter pipes. All measurement is internal to the cell, hence the proximity of pipe walls etc. has minimal effect on the reading. The  $\frac{3}{4}$ " BSP adaptor fitting supplied with the sensor allows easy installation and removal of the sensor. The adaptor fitting can be screwed into a line or tank or can be reversed and connected to a standpipe for use as a submersion assembly.

A 10 metre cable is provided as standard. Wetted materials are 316 stainless steel, Teflon, Acetal and on the K=10 cell graphite is used. A Pt100 RTD temperature sensor is placed internally at the tip of the inner electrode providing fast response for automatic temperature compensation.

The cell is available in K=0.1, K=1 and K=10 cell constants. The measuring range of each of these cell constants is:

K = 0.1 conductivity from 0 to 1,250 uS/cm

K = 1.0 conductivity from 10 to 12,500 uS/cm

K = 10 conductivity from 100 to 125,000 uS/cm

### Wiring colour code:

Red - temperature sensor, Green (or Black) - temperature sensor

Yellow (or White) - conductivity electrode, Blue - conductivity electrode

**Temperature range:** Up to 60°C, **Pressure:** Max. 7 bar



## Order Codes:

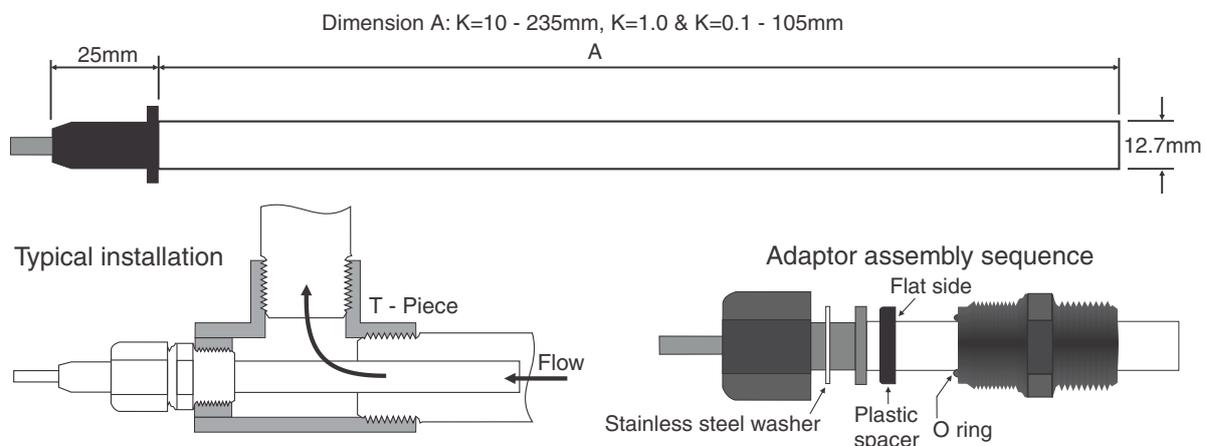
**P-K=10TBLRRT10** - for cell K=10,  $\frac{3}{4}$ " BSP/NPT thread, Pt100 RTD temperature sensor, 10 m cable

**P-K=1.0TBLRRT10** - for cell K=1.0,  $\frac{3}{4}$ " BSP/NPT thread, Pt100 RTD temperature sensor, 10 m cable

**P-K=0.1TBLRRT10** - for cell K=0.1,  $\frac{3}{4}$ " BSP/NPT thread, Pt100 RTD temperature sensor, 10 m cable

An optional  $\frac{1}{2}$ " BSP adaptor is available separately, part no.: **HB-G-FC50P**

The standard  $\frac{3}{4}$ " BSP adaptor is also available separately, part no.: **P-P8MC12**



CONDTBLR-2.3-0

**AMALGAMATED INSTRUMENT CO PTY LTD**

ACN: 001 589 439

Unit 5, 28 Leighton Place Hornsby  
NSW 2077 Australia

Telephone: +61 2 9476 2244  
Facsimile: +61 2 9476 2902

e-mail: sales@aicpl.com.au  
Internet: www.aicpl.com.au