### Installation Guide

Model 2077 Screw-In Type Conductivity Cell

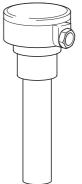


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> > ssue

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> address on the back cover, together with servicing and spares information. relevant hazard data sheets (where applicable) may be obtained from the Company Safety advice concerning the use of the equipment described in this manual or any

6. When disposing of chemicals ensure that no two chemicals are mixed.

and powders kept dry. Normal safe handling procedures must be used.

5. Chemicals must be stored away from heat, protected from temperature extremes

occurring when operating in conditions of high pressure and/or temperature.

4. Normal safety precautions must be taken to avoid the possibility of an accident

suitably trained personnel and in accordance with the information given.

3. Installation, operation, maintenance and servicing must only be carried out by

2. Warning labels on containers and packages must be observed.

broceeding.

1. The relevant sections of these instructions must be read carefully before

must be noted:

To ensure that our products are safe and without risk to health, the tollowing points

Health and Safety

Communications Department.

contents are not to be reproduced in full or part without prior approval of the Marketing of our equipment. Use of this manual for any other purpose is specifically prohibited and its Information in this manual is intended only to assist our customers in the efficient operation

with all Warning and Caution notices.

damaged equipment could, under certain operational conditions, result in degraded approcess system performance leading to personal injury or death. Therefore, comply fully associated with equipment or property damage, it must be understood that operation of Although Warning hazards are related to personal injury, and Caution hazards are

> brocess or surroundings. the risk of damage to the product, An instruction that draws attention to

Caution.

the risk of injury or death. Warning.

An instruction that draws attention to

intormation or technical details. Further reference for more detailed Information.

additional information. Olarification of an instruction or

.atoN \*

Contact one of the following offices for details of your nearest Service and Repair Centre. We provide a comprehensive after sales service via our Worldwide Service Organization.

2. Copies of operating and maintenance records relating to the alleged faulty unit.

In the event of a failure under warranty, the following documentation must be

clean, dry environment, in accordance with the Company's published specification.

Prior to installation, the equipment referred to in this manual must be stored in a

1. A listing evidencing process operation and alarm logs at time of failure.

Periodic checks must be made on the equipment's condition.

provided as substantiation:

Client Warranty

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betimiJ 88A Mobgni Kingdom

#### 1 PREPARATION

## 1.1 Checking the Code Number - Table 1.1

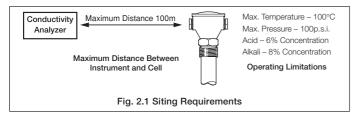
E	Basic Type No.	Mounting & Version	Cell Constant (K)	Process Connection Type	Temperature Compensation
Code Characters		2.4.5		7	
	1,2	3,4,5	ь	/	8
20	Electrolytic conductivity measuring cells	77/ Screw-in (epoxy resin)	<b>4</b> 0.1 <b>6</b> 1.0	0 1 in. BSP 8 1 in. NPT	0 None 5 Pt100 resistance thermometer

Table 1.1 Checking the Conductivity Cell Code Number

### 2 MECHANICAL INSTALLATION

# 2.1 Siting Requirements - Fig 2.1

Note. Allow sufficient clearance for easy removal of cell for cleaning – see Fig. 2.2 for overall dimensions of cells.

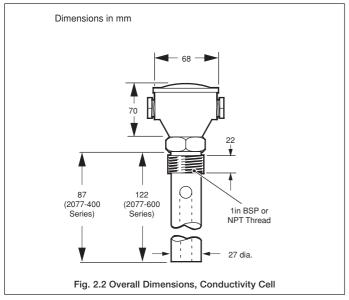


#### 2.2 Cleaning the Conductivity Cell

Before installing the conductivity cell, clean the electrodes as follows:

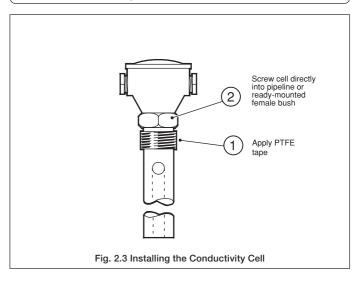
Thoroughly clean the electrode bore with a nylon-bristle brush (supplied) and a warm detergent solution. For more tenacious deposits a 2% hydrochloric acid solution may be used. After cleaning, thoroughly rinse the cell with distilled water and view the bore against a bright light to ensure that the interior surfaces are evenly wetted, i.e. free from grease deposits. Avoid wetting the electrical connection terminals.

### 2.3 Overall Dimensions, Conductivity Cell - Fig. 2.2



#### 2.4 Installing the Conductivity Cell - Fig 2.3

Caution. After cleaning and installing the conductivity cell, ensure it remains filled with liquid and is not allowed to dry out and ensure that the electrode bore remains fully immersed at minimum fluid levels.



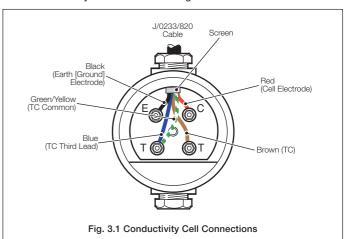
### 3 ELECTRICAL CONNECTIONS

Warning. Before making any connections, ensure that the power supply, any high voltage-operated control circuits and high common mode voltages are switched off

### 3.1 Conductivity Cell to Analyzer Connections

Information. Use cable part no. J/0233/820 to connect the conductivity cell to the analyzer.

### 3.1.1 Conductivity Cell Connections - Fig. 3.1



### 3.1.2 Analyzer Connections

Refer to the analyzer's User Guide for details of connecting cable  ${\rm J/0233/820}$  to the analyzer.