

4973 and 4974 Conductivity Cells

Model Selection Guide

- Rugged construction for conductivity measurement in industrial water processes at temperatures up to 140° C and pressures up to 250 psig
- Can be used in insertion or flow applications
- 4974 cell are suitable for sanitary CIP piping systems for food, beverage, pharmaceutical, cosmetic or biotech applications



4973



4974

Instructions

- Consult [Steps to Selecting Appropriate Conductivity Instrumentation and Cells](#) before making selections below.
- Select the desired key number. The arrow to the right marks the selection available.
- Make one selection from each Table using the column below the proper arrow.
A dot (•) denotes unrestricted availability.

Key Number

I

II

III

IV

V

KEY NUMBER

Selection Availability

Description			
04973 Conductivity Cell	04973	↓	
04974 Sanitary Conductivity Cell	04974		↓

TABLE I

Cell Constant	0.01	001	•	•
	0.1	X01	•	•
	1	XX1	•	•
	10	X10	•	•


TABLE II - Automatic Temperature Compensator (ATC)

Available for APT2000/4000CC, 9782C or Withdrawn 7082 Only	333	c	c
Available for all other already withdrawn analytical instrumentation.	202	•	•
	302	•	•
	303	•	•
	304	•	•
	305	•	•
	306	•	•

TABLE III - Leadwire Length

Leadwire Length	7 ft. (2,13 meters) Leadwire	X7	•	•
	20 ft. (6,10 meters) Leadwire	20	•	•
	Junction Box Head-Aluminum	X1	•	•

049



		Selection	73	74
CIP Sanitary Fittings	None	00	•	
	1.5 in. (38,10 cm)	15		•
	2.0 in. (50,80 cm)	20		•

TABLE V - OPTIONS

Tagging	None	0 __	•	•
	Linen	L __	•	•
	Stainless Steel	S __	•	•
Certificates	None (Note 1)	_0_	•	•
	Calibration (Note 1)	_1_	•	•
	Conformance (Note 1)	_2_	•	•
	Calibration & Conformance (Note 1)	_3_	•	•
Future		_ _0	•	•

RESTRICTIONS

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
c	II	For APT2000/4000CC, 9782C, or 7082 Only		

Note 1: The current selection system requires that Option 1 or 2 be chosen if a certificate is to be sent along with any of the available 4973/4974 cells.

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Accessories and Replacement Parts

Accessory Parts	Part Number
Flow Chamber	
PES	055919
316 SS	31079198
Junction Box	31316260
Cell Extension Leadwire	
For ATC value of 333:	
Standard Range 9782 or 7082, also APT2000	
To 500 ft:	
3-conductor, 18 gage cable (Belden 9493) and	834059
Coax cable (Belden 9259)	835024
To 1000 ft:	
Coax cable (Belden 9259)	835024
Wide Range 9782 and 7082	
To 500 ft:	
4-conductor, 18 gage cable only	31834052
To 1000 ft:	
4-conductor (3 used), 16 gage only	834055
For all cells with an ATC other than 333:	
3 conductor, 18 gage cable (Belden 9493) only	834059
Direction Manuals	
4973 Conductivity Cells	70-82-25-17
4974 Conductivity Cells	70-82-25-20