

User Guide

Automatic
Temperature
Compensation
(ATC) Probes



Introduction

Thermo Scientific Orion automatic temperature compensation (ATC) probes adjust pH measurements by correcting the electrode slope according to the measured temperature.

Connectors

The 927005MD epoxy, 927006MD glass, 927007MD stainless steel and 928007MD micro epoxy/stainless steel ATC probes have 8 pin MiniDIN connectors and are designed for use with the Orion Star series meters. These ATC probes can be used on meters with a variety of inputs when an adapter cable is used. Cat. No. 1010050 adapts 8 pin miniDIN ATC probes to 3.5 mm phono tip meters. Cat. No. 1010051 adapts 8 pin miniDIN ATC probes to 8 pin DIN meters.

The 927005 epoxy, 927006 glass and 927007 stainless steel ATC probes have 3.5 mm phono tip connectors and are designed for use with the 310, 320, 330, 350 and 370 PerpHecT meters as well as the 162A, 535A, 550A and 555A meters.

The 917005 epoxy, 917006 glass and 917007 stainless steel ATC probes have 8 pin DIN connectors and are designed for use with the A series and Aplus series meters.

The 917001 epoxy and 917002 glass ATC probes have dual banana plug connectors and are designed for use with the SA and EA series meters including the EA940 meter.

The 917008 stainless steel ATC probe has a banana plug connector and is designed for use with the 260, 260A, 261, 261S, 265, 265A, 266, 266S and 1230 meters.

Body Material

The 927005MD, 927005, 917005 and 917001 epoxy ATC probes are break resistant and suitable for rugged environments. They should not be used in organic solvents.

The 927006MD, 927006, 917006 and 917002 glass body ATC probes are designed for use in organic solvents.

The 927007MD, 927007, 917007 and 917008 stainless steel ATC probes have an extremely durable body and are ideal for food samples, organic solvents and rugged environments.

The 928007MD micro epoxy/stainless steel ATC probe has a minimum depth of immersion of 3 mm and a minimum sample size of 10 μ L in 384 well plates. Handle the stainless steel tip with care.

Specifications

Temperature Range

927005MD, 927005, 917005 and 917001 – 0 to 80 °C

927006MD, 927007MD, 928007MD, 927006, 927007, 917006, 917007, 917002 and 917008 – 0 to 100 °C

Relative Accuracy

± 1 °C

pH Range

0 - 14 pH

Storage

Store in air

Cable Length

1 meter

Probe Size – Standard Size ATC Probes

Length 12 cm, excluding cap

Diameter 927005MD, 927007MD, 927005, 927007, 917005, 917007, 917008 – 6 mm

927006MD, 927006, 917006, 917001 and 917002 – 8 mm

Probe Size – 928007MD Micro ATC Probe

Total length 155 mm, excluding cap

Epoxy body length 117 mm

Epoxy body diameter 5 mm

Stainless steel sensing tip length 38 mm

Stainless steel sensing tip diameter 1 mm

Assistance

Contact Technical Support. Within the United States call 1.800.225.1480 and outside the United States call 978.232.6000 or fax 978.232.6031. In Europe, the Middle East and Africa, contact your local authorized dealer. For the most current contact information, visit www.thermo.com/water.

Warranty

For the most current warranty information, visit www.thermo.com/water.

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Thermo Fisher Scientific

**Environmental Instruments
Water Analysis Instruments**

166 Cummings Center
Beverly, MA 01915 USA
Tel: 978-232-6000
Toll Free: 800-225-1480
Dom. Fax: 978-232-6015
Int'l. Fax: 978-232-6031

www.thermo.com/water

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