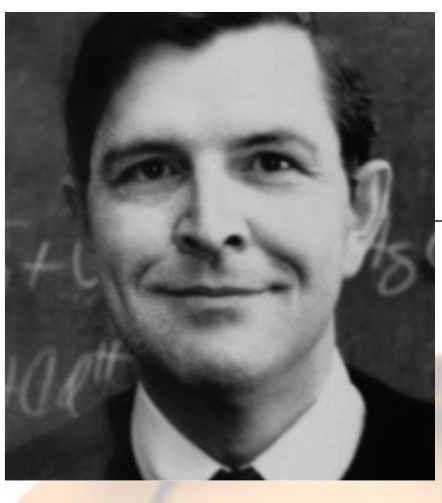
Thermo Fisher SCIENTIFIC

ROSS Electrodes

Celebrating 40 years of ROSS electrodes

The first Orion™ ROSS™ electrode was created in 1980 and introduced into the market in 1981 by Dr. James Ross and John Riseman. In 1984, engineer and glassblower Moshe Hirshberg would design the signature coil for which the ROSS electrode is known, ultimately extending the life of the product up to 2 years. This breakthrough technology resulted in increased accuracy and speed-to-results, while also minimizing drift over time.



1981

Riseman and Dr. Ross, after collaborating for years on technology for pH meters and electrodes, introduced a new form of pH electrode that used a redox reference system—the Orion ROSS pH electrode.

1984

The signature Orion ROSS coil, invented by Moshe Hirshberg, is integrated into ROSS pH electrodes.

2003

The Orion™ ROSS Ultra™ electrode is introduced to increase the length of reference, helping to provide the electrodes with up to 2 years of life.

2006

The Thermo Scientific brand is created. Through many mergers, the team remained a close-knit R&D team. This has helped maintain the high quality of Orion ROSS products.

2006

A first-of-its-kind Tris-compatible micro electrode is introduced into the market. The Thermo Scientific™ Orion™ PerpHecT™ ROSS™ Combination pH Micro Electrode measures temperature and pH down to 15 mL in volume.

2008

The first Thermo Scientific™ Orion™ ROSS Ultra™ Refillable pH/ATC Triode™ Combination Electrode is introduced, combining the measurement capabilities of pH and temperature into one Tris-compatible electrode.

2010

A triode electrode is offered with a glass body option for sensing slight changes in the activity of certain types of ions, while maintaining full temperature control.

2021

The Orion ROSS electrode celebrates

40 YEARS

Reference:

1. "New pH electrode uses redox reference system" *Chemical & Engineering News*, May 18, 1981, 54–55.

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