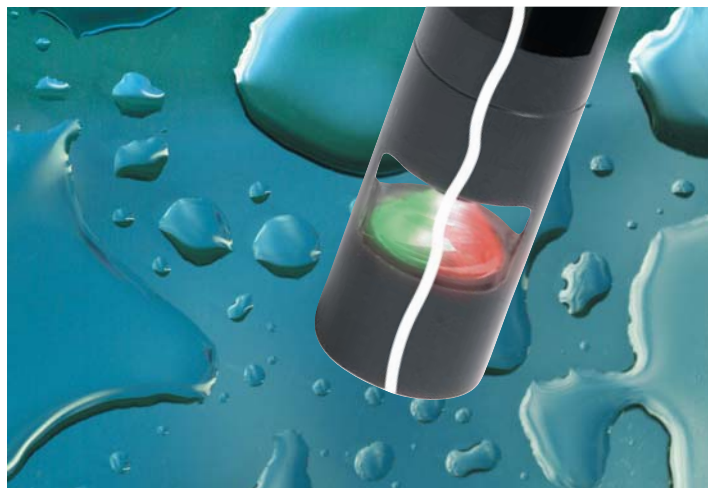


Photocolorimetric Titration Assembly

Make light work of your titrations!

- Ideal for virtually all colorimetric titrations
- Maintenance-free
- As easy to handle as any standard electrode



Photocolorimetric titrations become fast and simple when you add a PTM450 Photocolorimetric Titration Module and OPT300 Photocolorimetric Probe to your TitrLab® Titration Workstation.

Save time and energy

With a response time better than 1 second, the PTM450/OPT300 Photocolorimetric Titration Assembly is the perfect choice for every photocolorimetric titration application. The probe output signal is processed in order to send back a linear variation of the reading in mV to the workstation making the assembly as easy to use as any standard electrode.

Forget about maintenance

LED light-source technology generates no heat and ensures no lamp maintenance is required. The glass mirror tip can be replaced in no time should the need arise.

Take advantage of two wavelengths in one electrode

The photocolorimetric titration assembly offers both 525 nm (green) and 610 nm (red) wavelengths in a single optoelectronic module, enabling you to perform the majority of colorimetric titrations. The OPT300 is connected to the PTM450 via a dedicated glass optical fibre for each wavelength so it is easy to switch wavelengths, as you require.

Slot into your existing TitrLab system

The PTM450/OPT300 Photocolorimetric Titration Assembly is compatible with all the potentiometric titration systems in our TitrLab range. For automated analyses, it can be included in a complete system with a sample station or sample changer. Thanks to Radiometer Analytical's unique bayonet electrode head concept, the probe slots securely into place in one easy movement.

Technical Specifications

PTM450 Photocolorimetric Titration Module

- LED light-source: 525 nm (green) and 610 nm (red)
- LED light-source accuracy: ± 10 nm
- Three-position switch: 525 nm - Off - 610 nm
- Connection to titration manager: 120 cm cable, BNC plug
- Maximum output voltage: 2500 mV
- Output source impedance: 5 k Ω
- Power supply: 12 Vdc/0.2A power adapter
- Dimensions (W x D x H): 60 x 110 x 45 mm
- Weight: 250 g

OPT300 Photocolorimetric Probe

- **Bayonet head**
length: 103 mm
diameter: 12 mm
- **Three optical cables**
length: 60 cm
diameter: 0.5 cm

Each fibre consists of an array of 1 mm diameter glass fibres.

Secure screw-type connections of optical fibre to the PTM450 for optimum light transmission.

- Light loss (in pure water): less than 30% of the emitted signal.
- Epoxy/PVC body.
- Removable glass mirror tip.

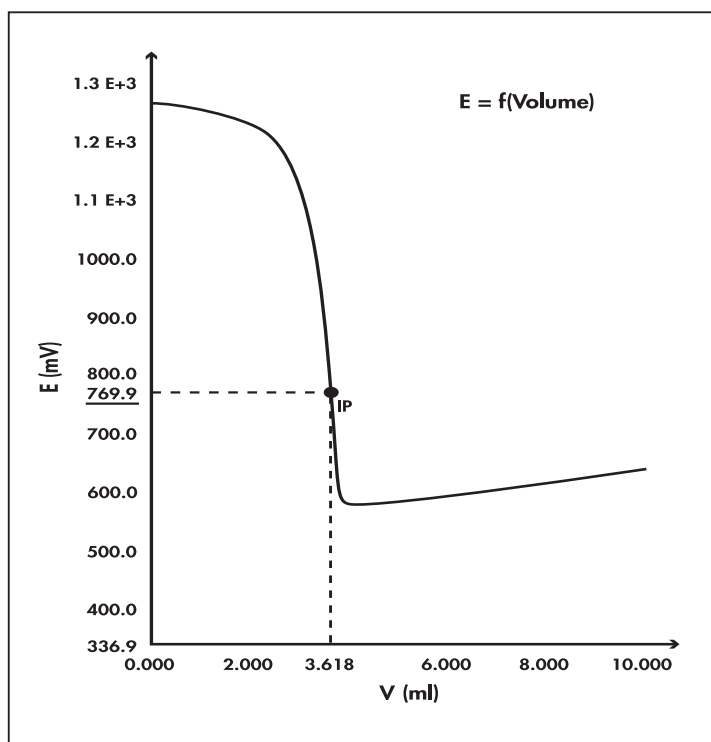
Ordering Information

The PTM450 Photocolorimetric Titration Module should be ordered together with the OPT300 Photocolorimetric Probe and the appropriate power supply adapter to form a complete photocolorimetric detection assembly.

- PTM450,NP Photocolorimetric Titration Module without power supply adapter: **X61T005**
- PTM450, NP-SAC90 Photocolorimetric Titration Module without power supply adapter for use in a SAC90 Sample Changer configuration: **X61T006**
- OPT300 Photocolorimetric Probe: **E71T001**



- Power adapter (EURO) 220 V/12 V/ 0.2 A: **904-942**
- Power adapter (USA) 115 V/12 V/ 0.2 A: **905-097**



Water hardness determination

- when you need to be sure...

RADIOMETER ANALYTICAL SAS
72 rue d'Alsace, 69627 Villeurbanne Cedex, France
E-mail: radiometer@analytical.com Web: www.radiometer-analytical.com
Tel.: +33 (0)4 78 03 38 38 - Fax: +33 (0)4 78 68 88 12

