

ATR Family

Gateway™ ATR System

An advanced multi-reflection ATR system for the infrared analysis of solids, liquids, pastes and gels.

The Specac Gateway™ ATR system is a low cost multi-reflection horizontal ATR accessory.

High performance transfer optics and anti-reflection coated ZnSe crystals ensure unrivalled throughput and sampling sensitivity.

The rugged design, simple optical layout and Specac's unique Benchmark™ base-plate system ensures optimum performance - no matter which instrument make or model you use.

The choice of three basic configurations gives the user the ability to select a complete package that best suits their needs while optional, additional top plates allow sampling flexibility and system expandability.



Applications

- Aqueous solutions
- Liquids - static or flowing
- Pastes and gels
- Polymer films
- Fine powders
- Quality control
- Temperature sensitive samples
- Reaction kinetics
- Education

Key Features

- Replaceable crystals
- High optical throughput
- Purgeable optics
- Extensive range of optional top plates
- Benchmark™ base-plate system

Illustrations, descriptions and specifications in this datasheet were correct at the time of going to press. However, Specac's policy is one of continuous product development and we reserve the right to change descriptions and specifications at any time.

For the latest details please contact your local Specac office or representative.

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Gateway™ ATR Top Plate Options

Flow Thru Top Plate



- Process Control
- 550µl volume
- Removable crystal
- Variety of crystals available
- Reaction Monitoring

Thermostabilised Top Plate



- Reaction kinetics
- 550µl volume
- Removable crystal
- Stainless steel top plate and Kalrez spacer
- Heatable to 90°C

Heated Trough Top Plate



Available in two versions:

- Water heated top plate to 90°C
- Electrically heated top plate to 200°C

Volatiles Cover



Prevents evaporation of volatile samples in trough top plates

Ordering Information

Gateway™ Systems

GS11165 Gateway™ combination system includes: optics unit, Benchmark™ base-plate, ZnSe trough and flat top plates, sample clamp, purge bellows
(Please specify spectrometer make and model)

Optional Top Plates

GS11116 550µl Flow through top plate with ZnSe 45° crystal
GS11118 550µl Thermostabilised flow through top plate with ZnSe 45° crystal
GS11139 Water heated / cooled trough top plate with ZnSe 45° crystal
GS11155 Electrically heated trough top plate with Znse 45° crystal and automatic controller (200°C)
(Please specify voltage required)

Other crystal materials available on request

Other Options

GS11127 5 Litre thermocirculator for GS11118 & GS11139
GS11132 Volatiles cover

Spares and Consumables

GS10707 Pair of purge bellows for enclosing Benchmark™ ATR beam path in spectrometer sampling compartment
GS11129 Gasket replacement kit for GS11130, GS11139 & GS11155 top plates
GS11133 ZnSe flat top plate
GS11145 Replacement ZnSe crystal for all top plates (excludes flat GS11133)
GS11150 Kalrez gaskets for 550µl top plates
GS11166 ZnSe trough top plate
GS11167 Replacement Kalrez gasket for GS11166
GS11170 Gateway™ optics unit only
GS11171 Sample clamp

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