

INFRA^TEC.

Upcoming Innovation for PYRONEER®

High-performance Detector with Thermal Stabilizing



COMING SOON – DSV-7341:

Innovative High-performance Detector with Thermo-electric Stabilizing

Soon InfraTec will introduce an **integrated thermal stabilization feature** via thermo-electric cooler (TEC) for its **PYRONEER® detectors with DLaTGS** as pyroelectrical material. The first detector with the function, that ensures maximum temperature stability and measurement accuracy, will be the **DSV-7341**.

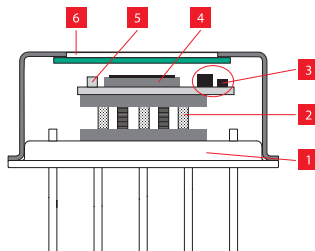
The TEC:

- Maintains a constant detector chip temperature
- Minimizes temperature-dependent signal drift
- Compensates for environmental influences or varying radiation levels during FTIR measurements

This precise temperature regulation guarantees exceptional measurement stability, making the DSV detector ideal for both mobile and premium FTIR spectrometers. In addition, the true hermetic sealing of the ZnSe windows, commonly used in FTIR, protects against moisture and ensures long-term reliability.

By combining thermal control, efficient design, and modern packaging with a closed heatsink connection, the new PYRONEER® DSV detectors will achieve unmatched performance and independence from temperature and

humidity. The ability to fit it with the known window materials of the series offers additionally maximum flexibility.



- 1 TO package (industry standard)
- 2 TEC (thermo-electric cooler)
- 3 Preamplifier
- 4 High-performance DLaTGS chip
- 5 Thermistor (NTC = Negative Temperature Coefficient)
- 6 Cap



Interested
in DLaTGS
Detectors?

Discover the advantages of our new DSV detectors and explore the expertise of our infrared sensor division. Simply scan the QR code and get in touch with us. Our team will be delighted to support you.

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