

tec5

MEMBER OF THE NYNOMIC GROUP

PROGAZE^{bold}



**UV, VIS, NIR, and Raman Spectrometers
for Regulated or Harsh Environments**

PROGAZE^{bold}

Robust Process Spectroscopy

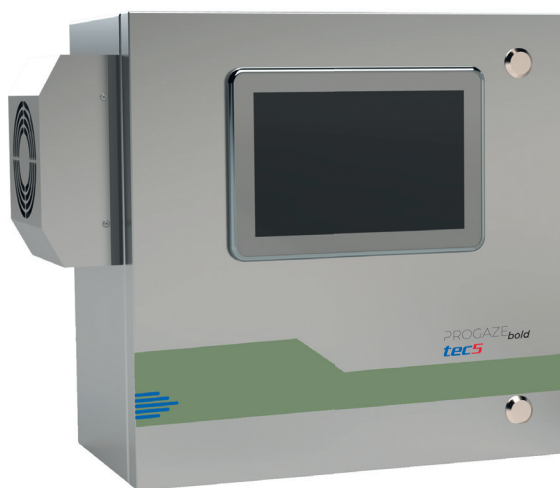
Due to its extremely robust design, the PROGAZE^{bold} series is the ideal platform for use in demanding or regulated environments, such as:

- High temperatures and ranges
- Harsh conditions (dust, dirt, etc.)
- Hygienic or corrosive environments
- Explosion hazard areas

Even under such challenging conditions, highly precise and reliable measurement results are

guaranteed, due to premium spectrometer components. High-performance optical modules in conjunction with state-of-the-art electronics ensure accurate and reproducible measurements in real-time.

Above and beyond excellent performance and outstanding specifications, the systems' high degree of standardization across the series guarantees simple method transfer between individual systems.



Highly Flexible

The PROGAZE^{bold} series features several configurations including a range of spectrometers for the UV, VIS, NIR, or Raman. All configurations are ready for multi-channel operation.

In accordance to your specific demands, the following features can be implemented:

- Climate control (heating, cooling)
- Hygienic design (dedicated surface finish, certified and approved materials)
- Pressurized enclosures for use in potentially hazardous atmospheres.

Optionally, the housings can be equipped with a touchscreen display.

Probes and Measurement Heads

The PROGAZE product family offers a variety of probes for precise and reliable measurements in industrial applications and harsh environments:

- Immersion probes
- Contact and non-contact measurement heads
- Flow cells, Transflection and ATR probes
- Raman probes

In addition application-specific adaptations and fully customized solutions are available on request. For easy integration, industry-specific adapters and flanges are provided.



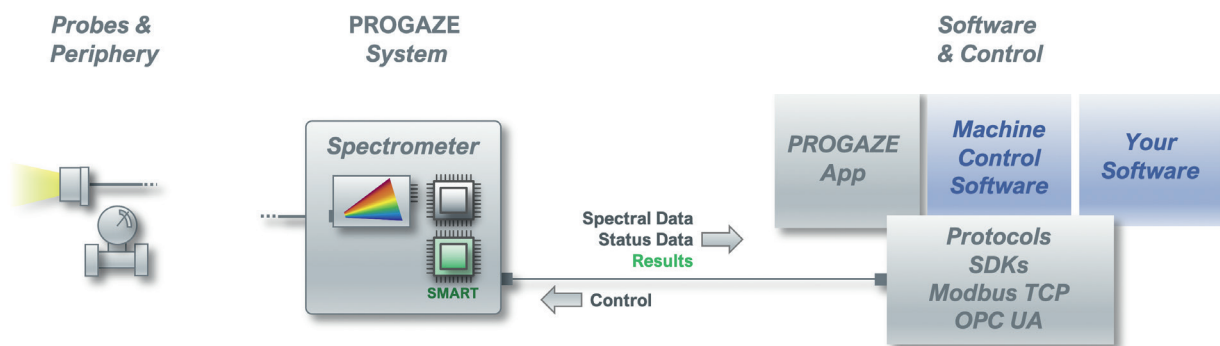
Configurable to Your Needs

UV, VIS, NIR, and Raman spectrometers with a variety of wavelength ranges and dedicated illumination sources are available for various applications and requirements.

	PROGAZE ^{bold}	Multi-channel	Multi-plexing	Climate Control	IP66	ATEX Version	Hygenic Design	Smart	Software	Touchscreen
UV Spectroscopy	✓	✓		✓	✓	✓	✓	✓	✓	✓
VIS Spectroscopy	✓	✓		✓	✓	✓	✓	✓	✓	✓
NIR Spectroscopy	✓		✓	✓	✓	✓	✓	✓	✓	✓
Raman Spectroscopy	✓		✓	✓	✓	✓	✓	✓	✓	✓

Smart Inside

In addition to standard system operation via an external software application, the SMART versions with on-board microprocessors permit autonomous stand-alone operation.



Data Processing and Evaluation

All PROGAZE^{bold} systems comprise:

- Full control of periphery
- On-board data pretreatment
- Condition monitoring functions

For system operation, an appropriate application software (PROGAZE^{soft}) is provided. Alternatively, standardized protocols and SDKs enable a fast and easy integration into your software application.

PROGAZE^{bold} are equipped with an integrated microcontroller for Linux (SMART). This enables full real-time data evaluation on the device itself, including:

- Commercially available prediction engines (chemometrics, color evaluation, etc.)
- Script languages (Python, R, etc.)

The required model and workflow procedures can be stored in an access-protected memory.

Future-proof Interfaces

To transfer the acquired data to any automation layer or control software, the PROGAZE^{bold} system offers various communication interfaces and protocols, e. g.:

- Classic (4 ... 20 mA, Digital I/O etc.)
- Fieldbus (Modbus, Profibus etc.)
- Advanced Standards (OPC-UA)

These future-proof interfaces also provide convenient access to modular automation, such as MTP, or client/broker based concepts.

All probes and additional external periphery (e. g., temperature sensors or pressure sensors) can be controlled and monitored directly via the PROGAZE^{bold} interface.

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