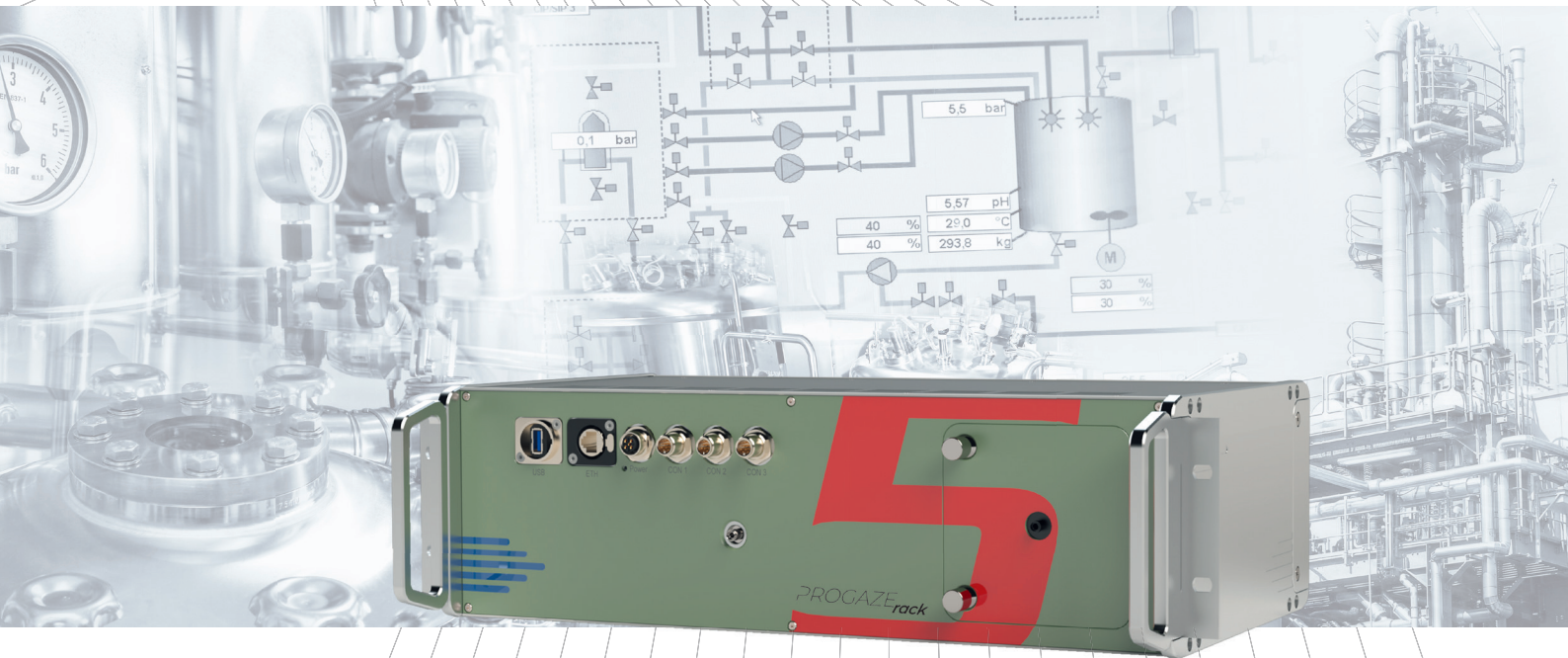


tec5

MEMBER OF THE NYNOMIC GROUP

PROGAZE_{rack}



**19" Compatible Spectrometer System
for UV, VIS, NIR, and Raman applications**

PROGAZE_{rack}

Maximum Flexibility for Process Analytics

As part of the powerful PROGAZE platform, the rack series is a reliable tool for fast and accurate online measurements in the process.

The PROGAZE_{rack} offers maximum flexibility thanks to its compatibility with the broad variety of 19" components such as multiplexers, IPCs, monitors, as well as standardized racks, cabinets, and further accessories.

Method transfer between different systems is significantly facilitated as a result of the high level of standardization, sophisticated data pre-processing, and outstanding optical properties with regards to wavelength accuracy, resolution, and sensitivity. Therefore, integration of the rack system into existing infrastructure grants access to quantitative and qualitative analyses in a straightforward fashion.



Various Options

Various spectral ranges from UV, VIS, NIR, as well as for Raman applications are available.

Functional expansion using optical fiber switches in 19" format enables up to 4 measuring channels.

Particular attention has been paid to the mounting options such that all cables and fibers can be routed both to the front or to the rear, ensuring maximum flexibility for installation.

Optionally integrated data evaluation functionalities enable autonomous operation as a smart sensor.

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.



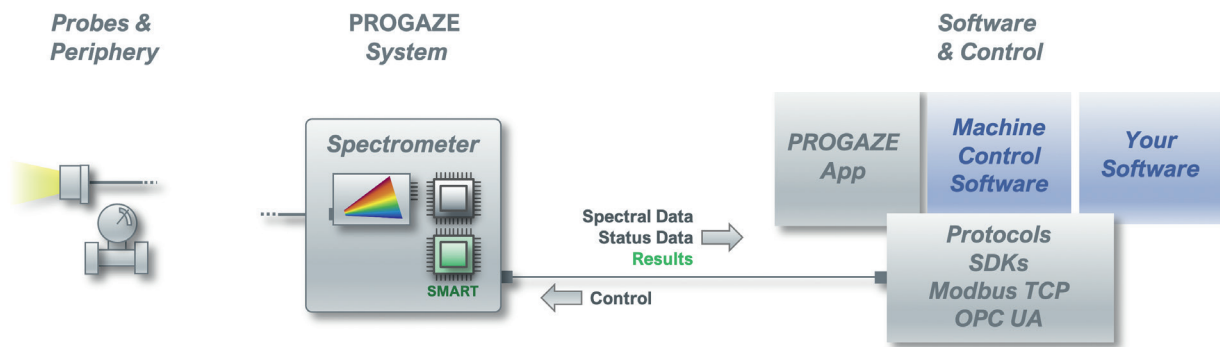
Configurable to Your Needs

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

	PROGAZE _{rack}	Multiplexer	Smart	Software	IPC	Monitor	Drawer
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_{rack} 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_{rack} 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 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 give 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 interface.

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