

tec5

MEMBER OF THE NYNOMIC GROUP

PROGAZE_{pure}



**Standardized Spectrometer and Illumination Assemblies
– Dedicated to System Integration**

PROGAZE_{pure}

Build Your Own Spectrometer Systems – with Ease

PROGAZE_{pure} is especially designed for easy individual system integration. The series features fully functional, CE-certified spectrometers and illumination assemblies with plug-and-play capabilities.

This design allows to provide the best possible support when integrating our spectrometer components into your individual solutions and products.

Once integrated, precisely and well defined specifications allow interchangeability of assemblies at any time.

Although highly standardized, numerous configuration options support the creation of individual and application-specific solutions. This enables you to create and to market systems with own unique selling propositions



Spectrometer Assemblies

The pure-spectrometer assemblies comprise a spectral sensor and a high-end operating electronics with comprehensive functionality including real-time data acquisition and processing. Optionally, additional embedded computing power and memory capacity provide a conveniently accessible infrastructure for full on-board data evaluation (e.g., chemometrics).

The assemblies feature an optimized form factor, high tolerance to vibrations and ambient temperatures and may be installed in any orientation.

Moreover, the assemblies come fully wired and certified to comply with all electromagnetic compatibility requirements.

Illumination Assemblies

Each PROGAZE_{pure} illumination assembly consists of a light source and corresponding electronics providing optimized output power stabilization and status monitoring. For easy replacement of the pre-aligned light sources, two service flaps on all modules grant convenient access.

The illumination assemblies can be operated either as stand-alone units or via the interface of the spectrometer assembly.

For the latter, the illumination module can simply be plugged to the spectrometer module without any cabling.

Configurable to Your Needs

PROGAZE_{pure} is available in a wide range of variations to simplify the realization of your specific systems.

Spectrometer assemblies for various applications:

- UV (various ranges and opt. resolutions)
- VIS (various ranges and opt. resolutions)
- NIR (various ranges and opt. resolutions)
- Raman (various ranges and opt. resolutions)

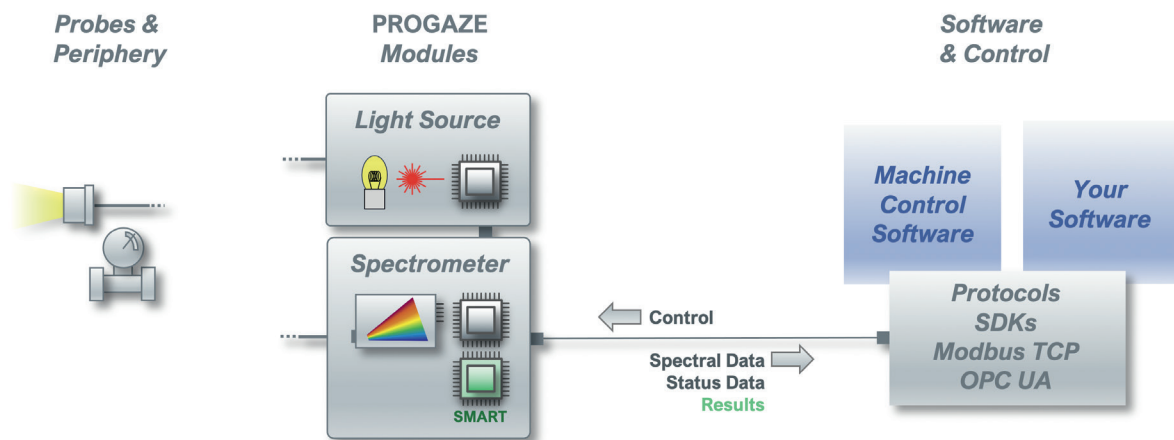
Four compatible illumination sources are provided:

- Halogen Lamp (power adjustable)
- Halogen-Deuterium Lamp (power adjustable)
- Xe-Flash (power adjustable)
- Laser 785 nm (35 mW, 150 mW or 500 mW)

Each assembly can be integrated and operated separately. In addition, all assemblies are all equipped with an internal data bus and powerline, allowing different modules to be combined and operated via one common interface.

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_{pure} assemblies 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_{pure} models 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.

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