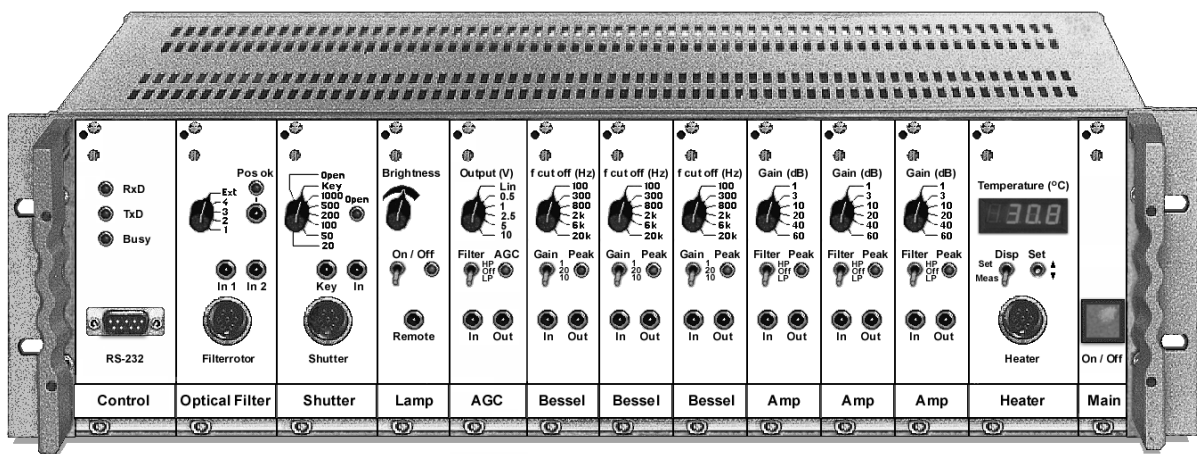


LabTronics



**Electronics, software and precision mechanics
for the R&D laboratory**

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Concept

The demand for specific hard- and software in the research laboratory is continuously increasing. Primelec is particularly knowledgeable concerning custom tailored systems in the entire field of lab-electronics, software and precision mechanics.

Additionally we offer LabTronics, an expandable and compact device consisting of a basic unit, various modules and the corresponding accessories. Many years of experience from the scientist's everyday life and fabrication in industrial quality ensure a practice-oriented and robust system.

LabTronics - Basic unit

The LabTronics basic unit is a chassis with integrated power-supply and backplane. The device can be mounted in a 19" rack or placed on the desktop.

The modular construction ensures a problem-free system expansion. Up to 20 modules in any combination can be inserted in a basic unit.

LabTronics - Modules

All LabTronics modules have standardized sizes and backplane plug connections. The use of a control-module allows via backplane the operation of most modules over a serial interface.

The list of available modules is continuously increasing. Beyond that, Primelec is specialized on custom tailored adaptations and redesigns. At this time the following modules are available (please ask for detailed technical description):

- **A/D Converters** in various versions:
 - Up to 24 Bit resolution
 - Up to 100MHz conversion rate
 - Adjustable input sensitivity
 - Switchable voltage gain
 - Switchable filter
 - Adjustable clamping level
 - Peak indicator

- **Amplifiers** in various versions:
 - Charge amplifier
 - Voltage amplifier
 - Power amplifier
 - Balanced inputs
 - FET-inputs
 - Galvanic isolated inputs
 - Ultra-low-noise inputs
 - Switchable filter
 - Adjustable gain
 - AGC
 - Switchable Sample/Hold
 - Peak indicator

- **Control-module** for the operation of most modules via backplane over a serial interface
- **D/A Converters** in various versions:
 - Up to 24 Bit resolution
 - Up to 150MHz conversion rate
 - Adjustable fullscale voltage
- **Drives for various auxiliary equipments:**
 - Optical filterrotor
 - Mechanical shutter
 - Micro-Stepper
- **Filters** in various versions:
 - Adjustable cutoff frequency
 - Selectable filter characteristic
 - Switchable voltage gain
 - Peak indicator
- **F/V and V/F Converters** in various versions
- **Programmable signal generators** in various versions
- **Regulators** in various versions:
 - Heating regulator
 - Motor regulator
 - Lamp regulator
- **Window discriminators** in various versions:
 - Voltage window adjustable
 - Time window adjustable
 - Switchable voltage gain
 - Switchable filter

Please contact us for further information:

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