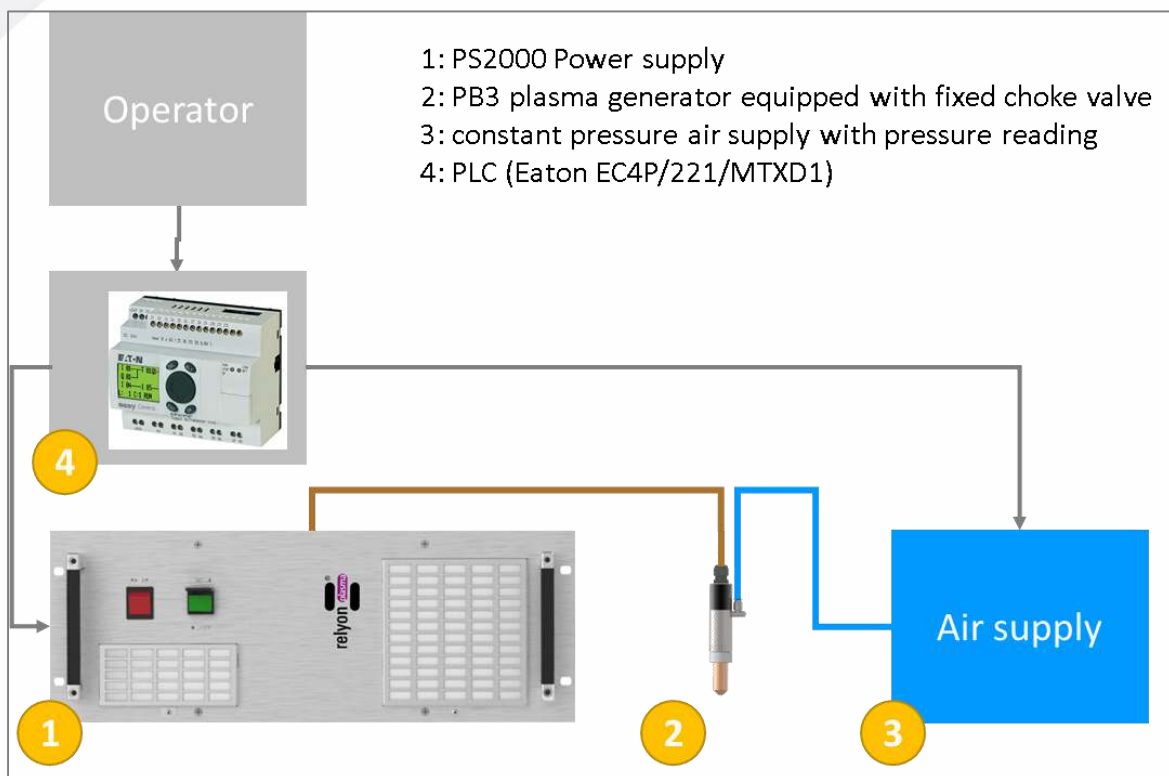


# Simple desktop plasma systems

For R&D purposes or simple production equipment plasma systems robustness and safety are the dominant requirements. Relyon Plasma GmbH has launched a simple system that offers at the same time simplicity and maximum control over all process parameters. The system will run in any laboratory or production system without deep knowledge of process technology or controls & communication. Free software for PLC or Windows PC (Windows 7 or later) is available for all configurations described below.

## PLC System

### Components and structure



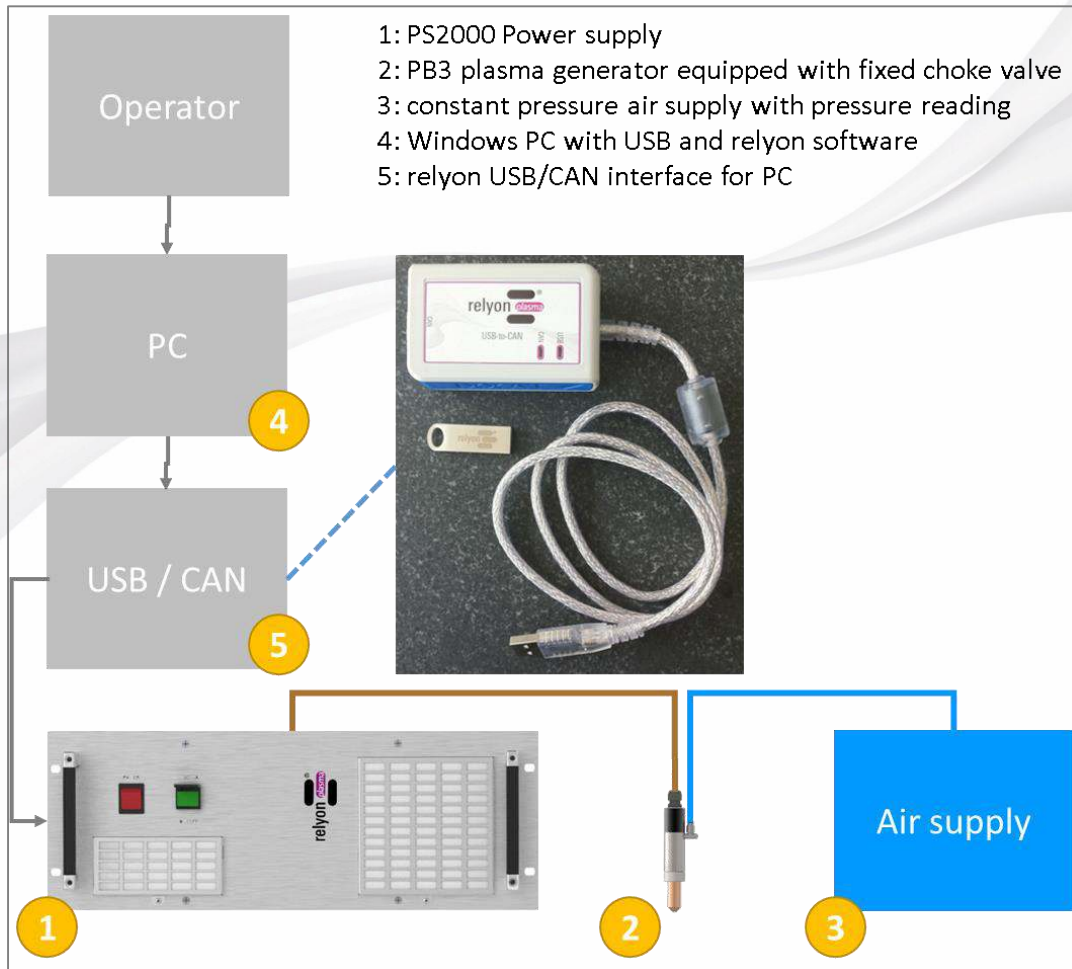
The gas supply is kept simple but still variable. Instead of using a costly mass flow controller, the flow is set using a pressure reducer with gauge. Flow through the nozzle is limited by a simple choke valve that has a preset value (ex works relyon plasma). A calibration chart for the flow valve is used to set the flow value between 30L/min and 90L/min. The PLC is equipped with 24V industrial standard signals to trigger an optional magnetic valves to switch the gas supply on and off.

## Software

Relyon delivers the PLC with preinstalled software. Documentation and latest versions can be downloaded free via our homepage (→ [www.relyon-plasma.com/downloads](http://www.relyon-plasma.com/downloads))

## PC/USB System

### Components and structure



The gas/air supply is identical to the simple PLC driven plasma system. The only difference is that now the full function of the PS2000 can be controlled via a simple Windows PC and the relyon USB/CAN interface.

### Software

The basic software comes with a memory stick, manual and installing instructions. The operation is straight forward using a simple graphical interface and control panel, data visualization including export options The Software has been developed using LabVIEW and can be extended to be implemented in projects that are more complex and control more than one plasma channel.

Relyon plasma delivers the USB/CAN interface with software on a memory stick. Documentation and latest versions can be downloaded free via our homepage (→ [www.relyon-plasma.com/downloads](http://www.relyon-plasma.com/downloads) )

## Combined System

Both systems are fully compatible due to the CAN bus structure.

