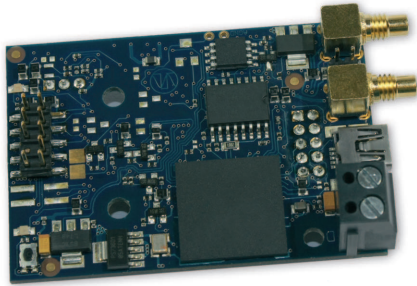


PLCS-21

Providing Brains for pulsed Driver Modules



- Control of pulse current, pulse width and repetition rate
- Microcontroller supervision of all pulser activity
- Provides USB interface for communication with PC and interface for PLB-21
- Several additional failsafe mechanisms to protect your laser diodes
- Standalone Pulse-Generator capability

Product Description:

Many PicoLAS driver modules for pulsed lasers can be upgraded with the PLCS-21 optional piggyback-controller. This versatile function generator allows full control of pulse width, pulse current and repetition rate.

Priority is given to provide maximum safety for the expensive laser diodes. An on-board microcontroller monitors current, voltage, temperature, pulse duration and rep-rates and cuts power to the diode if necessary.

The PLCS-21 provides a galvanically isolated USB interface. With this, the upgraded driver module can be connected to a PC. An additional interface can be used to connect the external operating unit PLB-21. This allows easy monitoring and manipulating the driver's behavior.

The piggyback controller also provides several internal trigger mechanism. This eliminates the need for an external function generator as a trigger device.

The PLCS-21 can also work as a standalone digital function generator. A square-wave signal with pulse width from 2 ns up to one second can be drawn from a coaxial 50 Ohm output.

The PLCS-21 automatically identifies the connected driver module. Maximum pulsewidth, output power etc. depend on the used laser diode driver.**

Technical Data:*

Supply voltage	+15 V (supply voltage for LDP-V is fed through PLCS)
Min. Pulse width	2 ns
Max. Pulse width	1 s
Pulse width adjustment	in steps of 1ns (<250ns) in steps of 5ns (>250ns)
Min. Repetition rate	1 Hz
Max. Repetition rate	2.4 Mhz
Repetition Rate adj.	in steps of 1 Hz
Coaxial 50 Ohm output	Generator Voltage: 10V Maximum Load: 50 Ohm
Trigger Inputs	500 Ohm, 5V, SMC connector 500 Ohm, 5V, 2-Pin connector
Interfaces	USB 2.0, PLB-20
Dimensions	67,7 x 42,3 x 22 mm
Weight	26 g
Operating temperature	0 to +55 °C

* Technical data is subject to change without further notice.

** See manuals for details.

Optional Accessories: PLB-21

Compatible Products: LDP-V 03-100 V3
LDP-V 50-100 V3
LDP-V 240-100 V3
LDP-AV D06-N20

