

TDLAS

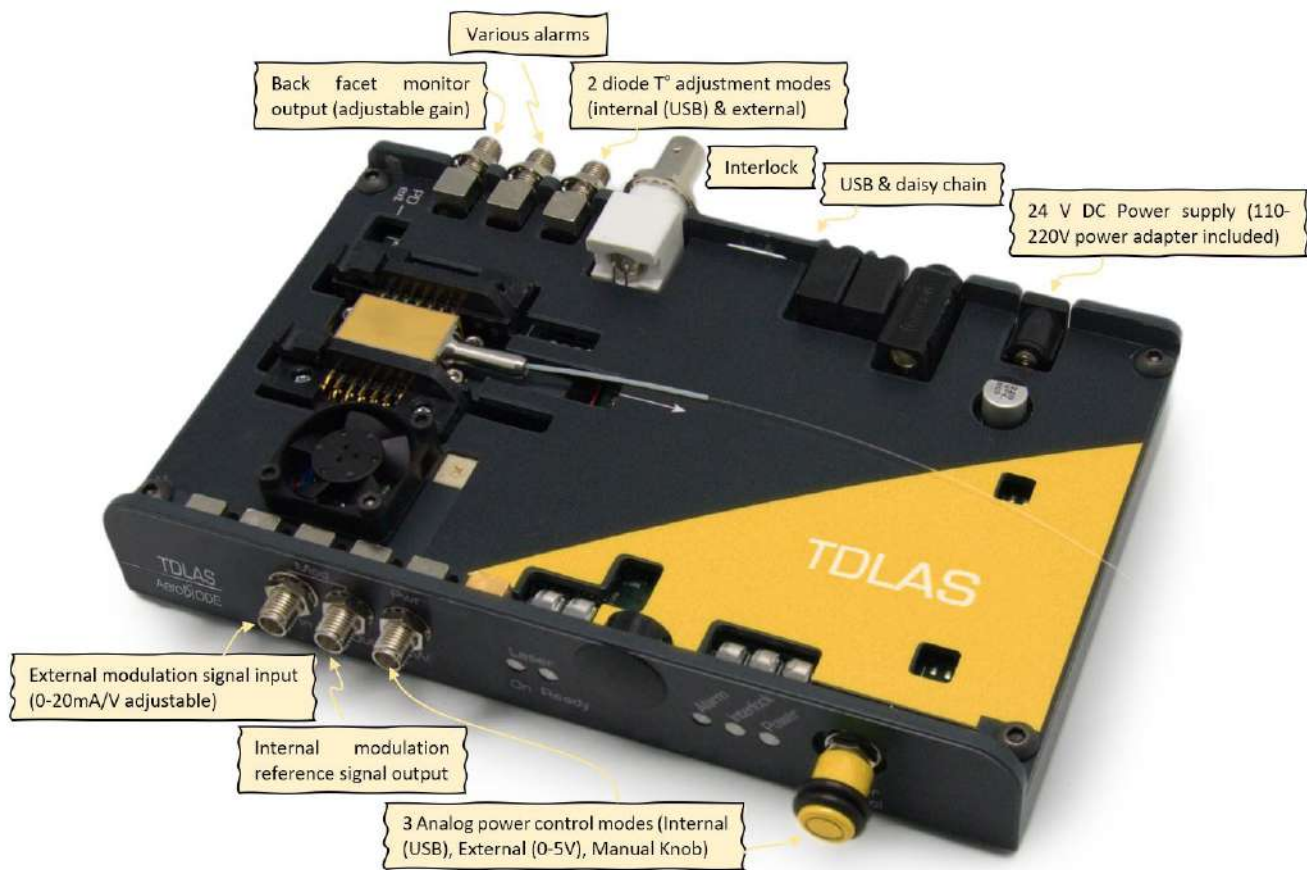
Laser diode driver for applications requiring high modulation bandwidth and low noise performances



Aero*Di*ODE

TDLAS

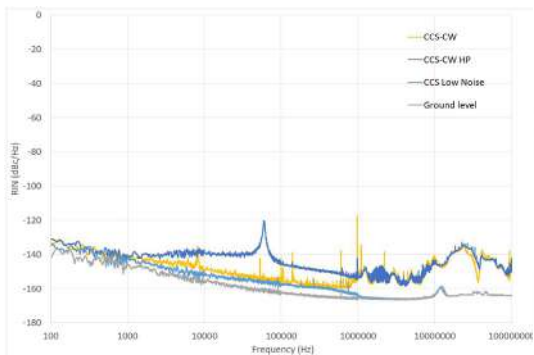
Laser diode driver for gas sensing R&D
with integrated butterfly mounting sockets and USB



Key features:

- Very low current noise with low setpoint drift and noise close to measurement instrument ground level
- Ideal for laser diodes such as **NTT**, **Eagleyard**, **Nanoplus**, **Eblana** etc.
- External current modulation with adjustable modulation transfer function [0 to 20 mA/V]
- Sinus, triangular or square wave internal modulation
- High resolution current level adjustment
- 1 mK precision integrated TEC Temperature Controller
- USB Interface with GUI & Programming Tools, Software Suite, DLL & LabVIEW Library
- Contains many functionalities for gas sensing techniques such as TDLAS, CAES, ICOS, CEAS, PS-CRDS, NICE-OHMS etc.
- Safe start-up and operations, with safe shut-offs

Technical Specifications



Noise level close to instrument ground level
(TDLAS/CCS-low noise is light blue curve)



Front and back panels

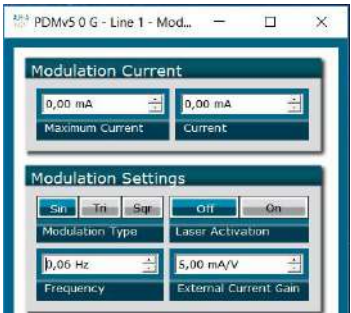


All Aerodiode products can be connected together and controlled by a single GUI

Electronic and Optical:

	TDLAS
Output Current	0 - 1500 mA (special 0-2500 - contact us)
Set point resolution (@ 100 mA)	2.5 μ A
Current Modulation	Internal : sin/sqr/triang External : 0-20mA/V (adjustable); Mod. bandwidth : 100kHz [typical 300 KHz]
Output compliance voltage	0 - 24 V (5V max for ultra low noise operation) - contact us for QCLs
Laser diode T° regulation	0 - 90°C
Temperature stability (typ)	<1 mK
TEC current/voltage	$\pm$ 3 A/4.6 V
BFM (Back Facet Monitor) / External photodiode monitoring	Yes/Yes (variable gain)
Interface/Compatibility/Libraries	USB / Hexa, DLLs, LabVIEW, Python (Windows and LINUX)
Power Supply	24V (adapt incl)
Dimensions (mm)	170*126.8*32.5

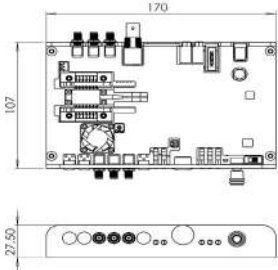
GUI software (modulation part):



Also available at board level:



Mechanical:





AeroDiODE

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