SUPERLUM — Pilot4-AC: 110/220V AC SLD Controller

Features:

- Driving of all types of cooled modules of SUPERLUM.
- Stabilization of SLD temperature at any value within the range of +10 °C to +40 °C, with the indication of the set temperature.
- Stabilization of SLD direct current at any value from 0 mA to 400 mA with the indication of the set current value. Higher current ranges are available on request.
- Remote monitoring of the SLD status and turning the SLD power on/off by external logic.
- High level of SLD protection against overloading.
- Low noise.

Accessories:

- Mounts for modules (DIL, BUT, TOW)
- Connecting cables
- External low pass filter

Stability and noise

All PILOT controllers allow excellent stability of SLD modules; typical short-term (15 minutes, 22 ± 0.1 °C ambient) and long-term (3 hours, 22 ± 0.5 °C) stability of SLD modules driven by PILOTs is 500 ppm and 3000 ppm, correspondingly.
No any excess noise to SLD intensity noise is added by PILOT-4 in frequency range 0.05 – 10 MHz; external LPF allows no excess noise starting 1 kHz frequency.

Technical parameters

Current source, constant current mode		**SLD protection section**	
SLD current range*	0 to 400 mA		
SLD voltage, maximum	3V	SLD current limit range*	5 to 400 mA
Set resolution **	0.1 mA	Set resolution**	0.1 mA
Accuracy (50 to 400 mA)	0.5 mA	Accuracy (50 to 400 mA)	1 mA
TEC controller section		**PD monitor section**	
Thermistor range	6.000 to 19.999 kOhm		
Stabilization T range***	+10 to +40 °C	PD monitor reverse voltage	5 V
Accuracy	0.1 °C	PD monitor current range	0 to 20 mA
Maximum TEC current	1200 mA	Display resolution	0.001 mA
Maximum TEC voltage	5.0 V		

* - up to 500 mA upon request
** - corresponds to LCD resolution
***- it is considered that 10K3CG2 of BetaTherm Ltd. Thermistors are used in SLD modules

General Data

Supply voltage	110/220 V AC
Cable connectors	9 pin D-SUB
Operating temperature	0 to +40 °C
Weight	1.2 kg

All specifications are subject to change without notice.

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