

SUNSTAR商斯达实业集团是集研发、生产、工程、销售、代理经销、技术咨询、信息服务等为一体的高科技企业，是专业高科技电子产品生产厂家，是具有 10 多年历史的专业电子元器件供应商，是中国最早和最大的仓储式连锁规模经营大型综合电子零部件代理分销商之一，是一家专业代理和分销世界各大品牌IC芯片和电子元器件的连锁经营综合性国际公司。在香港、北京、深圳、上海、西安、成都等全国主要电子市场设有直属分公司和产品展示展销窗口门市部专卖店及代理分销商，已在全国范围内建成强大统一的供货和代理分销网络。我们专业代理经销、开发生产电子元器件、集成电路、传感器、微波光电元器件、工控机/DOC/DOM电子盘、专用电路、单片机开发、MCU/DSP/ARM/FPGA软件硬件、二极管、三极管、模块等，是您可靠的一站式现货配套供应商、方案提供商、部件功能模块开发配套商。**专业以现代信息产业（计算机、通讯及传感器）三大支柱之一的传感器为主营业务，专业经营各类传感器的代理、销售生产、网络信息、科技图书资料及配套产品设计、工程开发。我们的专业网站——中国传感器科技信息网（全球传感器数据库）www.SENSOR-IC.COM 服务于全球高科技生产商及贸易商，为企业科技产品开发提供技术交流平台。欢迎各厂商互通有无、交换信息、交换链接、发布寻求代理信息。欢迎国外高科技传感器、变送器、执行器、自动控制产品厂商介绍产品到中国，共同开拓市场。**本网站是关于各种传感器-变送器-仪器仪表及工业自动化大型专业网站，深入到工业控制、系统工程计 测量、自动化、安防报警、消费电子等众多领域，把最新的传感器-变送器-仪器仪表买卖信息，最新技术供求，最新采购商，行业动态，发展方向，最新的技术应用和市场资讯及时的传递给广大科技开发、科学研究、产品设计人员。本网站已成功为石油、化工、电力、医药、生物、航空、航天、国防、能源、冶金、电子、工业、农业、交通、汽车、矿山、煤炭、纺织、信息、通信、IT、安防、环保、印刷、科研、气象、仪器仪表等领域从事科学研究、产品设计、开发、生产制造的科技人员、管理人员、和采购人员提供满意服务。**我公司专业开发生产、代理、经销、销售各种传感器、变送器、敏感元器件、开关、执行器、仪器仪表、自动化控制系统：专门从事设计、生产、销售各种传感器、变送器、各种测控仪表、热工仪表、现场控制器、计算机控制系统、数据采集系统、各类环境监控系统、专用控制系统应用软件以及嵌入式系统开发及应用等工作。**如热敏电阻、压敏电阻、温度传感器、湿度变送器、湿度传感器、湿度变送器、气体传感器、压力传感器、压力变送器、称重传感器、物（液）位传感器、物（液）位变送器、流量传感器、流量变送器、电流（压）传感器、溶氧传感器、霍尔传感器、图像传感器、超声波传感器、位移传感器、速度传感器、加速度传感器、扭矩传感器、红外传感器、紫外传感器、火焰传感器、激光传感器、振动传感器、轴角传感器、光电传感器、接近传感器、干簧管传感器、继电器传感器、微型电泵、磁敏（阻）传感器、压力开关、接近开关、光电开关、色标传感器、光纤传感器、齿轮测速传感器、时间继电器、计数器、计米器、温控仪、固态继电器、调压模块、电磁铁、电压表、电流表等特殊传感器。同时承接传感器应用电路、产品设计和自动化工程项目。

欢迎索取免费详细资料、设计指南和光盘；产品凡多，未能尽录，欢迎来电查询。

更多产品请看本公司产品专用销售网站：

商斯达中国传感器科技信息网：<http://www.sensor-ic.com/>

商斯达工控安防网：<http://www.pc-ps.net/>

商斯达电子元器件网：<http://www.sunstare.com/>

商斯达微波光电产品网：[HTTP://www.rfoe.net/](http://www.rfoe.net/)

商斯达消费电子产品网：<http://www.icasic.com/>

商斯达军工产品网：<http://www.junpinic.com/>

商斯达实业科技产品网：<http://www.sunstars.cn/>传感器销售热线：

地址：深圳市福田区福华路福庆街鸿图大厦 1602 室

电话：0755-83607652 83376489 83376549 83370250 83370251 82500323

传真：0755-83376182 (0) 13902971329 MSN: SUNS888@hotmail.com

邮编：518033 E-mail: szss20@163.com QQ: 195847376

深圳赛格展销部：深圳华强北路赛格电子市场 2583 号 电话：0755-83665529

技术支持：0755-83394033 13501568376

PL4

Gas control panel



DESCRIPTION

The PL4 gas control unit represents the better technology in gas detection in small system, ideal for residential, commercial and industrial applications.

The PL4 is a microprocessor control unit, 4 inputs expandable to 8, for explosive, toxic and oxygen 4-20 mA gas detectors, housed in a metallic cabinet complete with a 12Vdc 1.5 A power supply. The control unit allows also the connection of standard 2 wires fire detectors (smoke or heat detectors).

The PL4 is a built-in 4 analog 4-20 mA inputs control unit that can be extended to 8 by using an on-board 4 zones expander module, easy to connect directly to the control unit.

The present backlit LCD display gives a precise indication of gas concentration as well as the alarm set points. Also LED indicators for alarm levels, fault and power-on are available on the front panel. An internal buzzer for an audible alarm with front panel reset facility is included.

The PL4 control unit can be configuring for a different kind of gas detectors used to detect, in an atmosphere mainly composed of air, either the presence of flammable compounds, the

concentration in terms of percentage of the Lower Explosion Level (%LEL), and toxic compounds, for the concentration expressed in ppm (parts per million) or, in particular for oxygen, for the deficiency detection of the gas. Also normal (conventional) fire smoke and heat detectors can be connected to each single line. It is a two-wires connection, typically for conventional fire systems (current loop).

The control unit programming and operation is performed by the present back lit LCD display, a three positions keyboard for Set, Unset and program operations, Reset and Acknowledge push buttons.

With respect to the controllable outputs, the control panel is equipped with 5 relays, one for each thresholds (AL1, AL2, AL3), 1 for fault (FLT) and 1 programmable.

Using the on-board 4 zones expander, are available 16 electrically Open-Collector outputs linked to two thresholds (AL2 – AL3) of each of the 8 Inputs. The PL4 control unit box is capable to fit in a 12 VDC-7 Ah additional battery to ensure its normally working when the main power supply is disconnected.

SPECIFICATIONS

Housing:	Plate cabinet Dim.:360x225x110 mm	Display	Backlit LCD 16c. on 2 rows
Microprocessor:	8 BIT	LED indications:	Main power supply All. 1, All. 2, All. 3, fault and battery low.
Inputs:	4 x 4-20 mA analog expandable to 8 zones using 1 ST.PL4/ESP module.	Power supply:	220 V ac +/- 10 %
Outputs:	5 relay, expandable with 16 electrically Open- Collector outputs using 1 ST.PL4/ESP.	Power consumption from the 12 Vdc:	80 mA normally, 160 mA in Alarm, 240 mA with the expansion board.
		Operating temperature	from 0- 40 °C
		Relative humidity	15-85% non-condensing

COMPATIBLE WITH THE FOLLOWING SENSITRON DETECTORS

"SMART and SMART 2 CATALYTIC SENSITRON SERIE	Microprocessor Detectors, catalytic sensor, with three thresholds open-collectors alarm output, and 4 - 20 mA proportional output. Power supply 12-24 Vdc.
"SMART and SMART 2 "ELECTROCHEM. CELL" SENSITRON SERIE	Microprocessor Detectors, ELECTROCHEMICAL CELL sensor, with three thresholds open-collectors alarm output, and 4 - 20 mA proportional output. Power supply 12-24 Vdc.



DUST and Exd gas detectors

PART NUMBER

ST.PL4	4 inputs, 5 Relay outputs Control Panel, expandable to 8 inputs using 1 ST.PL4/ESP.
ST.PL4/ESP	4 input PL4 expander PCB. Also provides 16 additional Open Collector Outputs.

Due to **Sensitron's** commitment to research, design and product improvement specifications are subject to change without notice.



For more information, please contact:

SENSITRON: S.r.l.
 POGLIANO MILANESE, MILANO, ITALY.
 Tel. + 39 02 93 54 81 55 Fax. + 39 02 93 54 80 89