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銷世界各大品牌IC 芯片和電子元器件的连锁经营綜合性国际公司。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 测计量、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、温度变送器、湿度传感器、 湿度变送器、气体传感器、 气体变送器、压力传感 器、 压力变送、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、扭距传感器、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。

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Environmental monitoring unit **PCM 6-02**

The microprocessor Control boards PCM602, planned and built by SENSITRON S.r.I., offers the greatest safety and reliablility for industrial applications.

The Control boards are able to support 2 indipendent analog inputs:

connected to gas detectors, series SMART-2, they analyse, in real time, the presence of flammable

compounds, the concentration of

which is expressed as percentage of the Lower Explosion Level (%LEL), or toxic compounds, the concentration of which is expressed in parts per milion (PPM), or the deficiency or excess of oxygen.

The technical features and the innovative planning put the **Control Boards PCM602** between the most advanced equipments for the monitoring of industrial environment.

Their modularity, full espandibility and possibility to interface proportional 4-20 mA output detectors, together with the availability of: relays outputs for local command and remote monitoring through output RS-485, make the Control Boards suitable for several applications.

The modular execution allows to concentrate in a singol 19" rack up to 10 **PCM602** Control boards, each provided with an own indipendent supply group.

Usually the units are supplied with 24V DC or 220/100V AC 50/60Hz; it is possible, in addition, the double (redundant) supply.

The **Control Boards PCM602**, are able to run the current signal from detectors, as well as to supply the detectors with a supply unit, that is voltage monitored and provided with a current limiting device to eliminate sparks in case of short-circuit.

The Control Boards PCM602 are provided with an



alphanumeric Back lit LCD display 8 caracters on 2 rows. The Display shows

the measure, that come from the connected detectors, continuously (real time).

In case of alarm, the reached threshold level is shown on display; each threshold or function is displayed by double redundant logic-LED.

The functions:
Acknowledge, Reset,
Programming are
activated by 3 push

bottons.

In the measure range, 3 alarm thresholds, Caution, Warning, Alarm, run with sequences: ISA-A Warning, and ISA-M Alarm; in addition, a Fault signal is available. The 3 thresholds and the Fault signal are provided with indipendent relays outputs. System Faults are shown on the display and with the LED "Fault" and run by the Fault relay; in addition, an indipendent Watch-dog with relay output is present.

In order to give a further safety warranty, a serial interactive output RS485 is provided, which is able to communicate with MULTISCAN-IDI panels, via PC or PLC. The microprocessor circuitry is provided with: Watch-Dog logic, auto-diagnosis and supply control and relative signalling outputs. The Control Board PCM602, if connected to non-provided detectors, is with an algorithm proprietary software provided, to maintain the zero-parameter of the sensor, apart from possible drift due to thermic or physical variations of the same sensor; following functions are also available: digital filter employed to correct temporary events, which should be ground of system instability or reading errors and consequent false alarms;

hysteresis cycle applied to the digital outputs, associated to the alarm threshold, to avoid possible switchings around threshold points.

SPECIFICATIONS

Housing Rack 19" - 3U

3HE x 8TE Module

Standard power supply 23 – 30 Vcc nominal 24Vdc Optional power supply 11 – 14 Vcc nominal 12Vdc

Or 110/220Vac + - 15% 50/60Hz

Other voltages on request

Power consumption DC: only the board: Max 4W
Power consumption AC: only the board: Max 6VA
Power supply output with current protection

Inputs 2 analog

Signal measured 4–20 mA on 200 Ohm max.

Line resistance 10 Ohm max.

Alarm relay outputs 3 relay with SPDT contacts

Fault relay output 1 relay NO contact

Watch-Dog control o/p 1 normally energized relay NC contact

Relay contact current 1A 24 Vdc 60VA

Relay approvation UL, CSA

Electrical outputs 4 open collector outputs Serial ports 1 RS-485 interactive

Microprocessor 8 bit 8 Mhz Non volatile memory 1 Kbyte

Display Back lit LCD 8c. on 2 rows

Front panel indications 3 for Alarm treesholds, 1 for Fault,

1 for powered unit and 1 for RS485 com.

All the indications are by double LED for redundant logic

Alarm threesholds 3 (caution, warning, alarm)
Connection by DIN-41612 connector

Accurancy +/- 1 digit

Operating temperature from -10 to +55°C Storage temperature from -20 to +70°C Relative umidity 90% non condensing

Warm-up time 60"



CONNETTABLE TO THE FOLLOWING "SENSITRON" CONTROL PANELS:

CODE	DESCRIPTION
ST.G/MTIDB	GALILEO IDI CONTROL UNIT, up to 120 SMART IDI explosive and toxic gas detectors connected on 4
	RS485 buses. 4 outputs upgradable to 128. Housed in a metal cabinet with 12 Vdc-3.5 Amp. enclosed power supply. CENTRONIC output for parallel printer. 1 x RS232 computer port. Event log.
ST.G/MTIDR	As above but in 19" 3 U rack. 12 Vdc power supply is required.

COMPATIBLE WITH THE FOLLOWING SENSITRON DETECTORS

SMART 2	Microprocessor Detectors, catalytic sensor, with three thresholds
CATALYTIC	open-collectors alarm output, and 4 - 20 mA proportional output.
SENSITRON SERIE	Power supply 11-24 VDC.
SMART 2	Microprocessor Detectors, ELECTROCHEMICAL CELL sensor, with
"ELECTROCHEM. CELL"	three thresholds open-collectors alarm output, and 4 - 20 mA
SENSITRON SERIE	proportional output. Power supply 11-24 VDC.

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



For more informations, please contact:

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