

GALILEO MULTISCAN

“LIGHT” and “PARKING”

Gas Control Panels



DESCRIPTION

MULTISCAN MTSL (Light) and MTSP (Parking) are microprocessor based units for toxic and/or explosive gas detection, designed to offer the customer a powerful and flexible system.

At the core of the control panel is a powerful 8 bit microprocessor operating at a frequency of 12 MHz.

MULTISCAN LIGHT version has been designed to manage up to 104 detectors (analogue type, 4-20mA output) while the version PARKING can manage up to 200 detectors.

The connection to the detectors is carried out by employing remote modules each offering a 8 input connection linked on the RS485 buses

MULTISCAN central units are equipped with 4 output relays programmable and linked to thresholds alarm or fault status, with stable, latched or pulsed output. In addition to these outputs, it is possible to connect 4 output modules on each RS 485 bus so as to offer 64 additional Open Collector output to the version LIGHT and 128 to the PARKING.

The flexibility of the control unit permits to use together detector for explosive and toxic gas, by setting different thresholds for every detector. It's possible to assign measure unit in % LEL for explosive gases and in ppm

(part per million) for toxic gases.

Both versions MTSL and MTSP are provided with events log: the number of events that the control unit can store is up to 800.

A Centronic's parallel printer port is also available.

The system configuration is carried out directly through the keypad on the front panel and the graphic LC-display (back-lit 256x64 pixel) shows the system status and the gas concentration being detected.

A serial port RS232 is also provided for the connection to a personal computer thus allowing a saving time. The same port allows connection to remote programming and control systems (Personal Computer) that during the normal operation, provides the facility of copying, storing and viewing the programming data and event log from an on-line MTS control unit.

The information transmitted to the computer are in SIA format that provides highly detailed information on each alarm or events, but the MTS control units can be customized with other kind of formats.

The control units are housed in Metal cabinet or in a 19" 3 units rack with separate power supply which has to be ordered separately.

GALILEO MULTISCAN MTSL and MTSP

| | | |
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| Housing: 19" - 3U Rack or metal box Dim.:440x420x140 mm Microprocessor: 8 bit 12 MHz EPROM: 1 x 128 Kbytes Non volatile memory: 1 x 128 Kbytes Inputs: 8 local 4-20 mA expanded up to 104 for MTSL by 12 remote modules of 8 inputs each, on 1 bus RS 485; and up to 200 for MTSP by 24 remote modules of 8 inputs each on 2 bus RS 485. Output: 4 local relay expanded: up to 68 for MTSL by 4 remote modules with 16 outputs each, on the RS485 bus. Up to 132 for | Serial ports: RS232 + 2 x RS485 (only 1 RS485 for MTSL) Parallel port: 1 x CENTRONIC Power supply: 12 V DC RACK 19" version 220 Vac BOX version Display: Back lit graphic LCD 256 x 64 dots. LED indications: Main power supply All. 1, All. 2, All. 3 and fault Events log capability: up to 800 events buffered Operating temperature: from 0- 40 °C Relative humidity: 15-85% non condensing | MTSP by 8 remote modules with 16 outputs each, on the two RS485 busses. RS232 + 2 x RS485 (only 1 RS485 for MTSL) 1 x CENTRONIC 12 V DC RACK 19" version 220 Vac BOX version Back lit graphic 64 dots. Main power supply All. 1, All. 2, All. 3 and fault up to 800 events buffered from 0- 40 °C 15-85% non condensing |
|--|--|---|

COMPATIBLE WITH THE FOLLOWING SENSITRON DETECTORS

| | |
|----------------------------|---|
| "SMART3" LINE | Microprocessor based gas detectors employing a professional Pellistor cell for the flammable gas detection. 4-20 mA and RS 485 (optional) output. Power supply 12-24 Vdc. Detectors are ATEX certified. Please refer to the relevant literature for details. |
| FOR FLAMMABLE GASES | |
| "SMART3" LINE | Microprocessor based gas detectors employing a professional electrochemical cell for the toxic gas detection. 4-20 mA and RS 485 (optional) output. Power supply 12-24 Vdc. Detectors are ATEX certified. Please refer to the relevant literature for details. |
| FOR TOXIC GASES | |
| "LCR2" LINE | Analog gas detector employing a professional Pellistor cell for the detection of Methane, LPG and gasoline vapours. An electrochemical cell may also be employed for the CO detection. Output: 4-20mA Power supply: 12-24Vdc |
| FOR OEM CUSTOMERS | |

PART NUMBERS

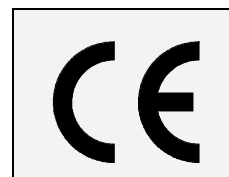
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|--------------------|---|
| ST.G/MTSLR | GALILEO MULTISCAN LIGHT , 8-zone control panel, to be extended to 104 by using 8 zones remote cards on the RS485 bus. Housed in a 19" 3U rack. Equipped with 8 x 4-20mA input channels and 4 relay outputs. 12 Vdc power supply is required. |
| ST.G/MTSLB | As above but in metal cabinet with 12 V - 3.5 A enclosed power supply. |
| ST.G/MTSPR | GALILEO MULTISCAN PARKING , 8 zone control panel, to be extended to 200 by using local 8 zones remote cards on at the 2 RS485 bus. Housed in a 19" 3U rack. Equipped with 8 x 4-20mA input channels and 4-relay outputs.12 Vdc power supply is required. |
| ST.G/MTSPB | As above but in metal cabinet with 12 V - 3.5 A enclosed power supply. |
| ST.G/IN8 | 8 remote inputs card for the GALILEO MULTISCAN control panels. |
| ST.G/OUT16 | 16 remote outputs card for the GALILEO MULTISCAN control panels |
| VM.B/138V15 | Metal Cabinet with enclosed a 12Vdc/1,5A Power Supply for one of the above Galileo remote modules |
| ST.G/BOX | Plastic box for ST.G/IN8 and ST.G/OUT16 modules |
| ST.SW/M-GA | "SECURNET" Maps Graphics software for GALILEO MTS and PLG8 installations. Windows 3.1 or '95 is requested. Supplied with dongle. Fully programmable by customer, can accept graphics files built with other software. Trend and Bargraph performances of the Control Units detector inputs. |
| ST.S/AL3.5 | 12V - 3.5A Power Supply. Housed in 19" 3U rack. |

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

For further information please contact:



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GAS DETECTING SYSTEM BLOCK DIAGRAM WITH GALILEO MULTISCAN CONTROL PANEL

ST.MTS_B-R GALILEO MULTISCAN
CONTROL UNIT, BOX OR 19" RACK
VERSION

1 SERIAL PORT Rs232
FOR THE CONNECTION
TO APC FOR REMOTE
CONFIGURATION AND
MONITORING (Software
SECURNET PLUS)

1 PARALLEL (CENTRONIC)
PORT FOR PRINTER
CONNECTION



REMOTE POWER SUPPLY
(12/24 Vdc) FOR GAS
DETECTORS AND IN/OUT
MODULES (2 SHIELDED
WIRES)

2 SERIAL BUS (Rs485)
(TWISTED and SHIELDED
COUPLES)

ST.G/IN8 4-20 mA INPUT
MODULES (UP TO 12 FOR
SERIAL LINE)

IN/8

IN/8

OUT
16



SMART 2 O SMART3 GAS DETECTORS
(UP TO 8 FOR EACH GRIO)

ST.G/OUT16 OUTPUT
MODULES (UP TO 4 FOR
SERIAL LINE)

ST.G/IN8 4-20 mA INPUT
MODULES (UP TO 12 FOR
SERIAL LINE)

IN/8

IN/8

OUT
16



SMART 2 O SMART 3 GAS DETECTORS
FOR FLAMMABLE OR TOXIC GASES
(UP TO 8 FOR EACH GRIO)

ST.G/OUT16 OUTPUT
MODULES (UP TO 4 FOR
SERIAL LINE)

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