

MULTISCAN++S1

MULTISCAN++S1 is an innovative gas control unit used for monitoring and controlling up to 256 gas detectors. Extremely flexible and highly reliable, it allows monitoring gas detectors connected with both 4-20 mA transmission and addressable loops.

MULTISCAN++S1 may be configured connecting different field modules to the RS485 loops in order to customize it to the various requests and needs of the field of application as per the table here below:

Model	RS485 bus lines	Max. connectable detectors	Max. outputs	STG/IN8-S modules	STG/OUT16-S modules
MULTISCAN++S1 (rack version)	4 open or 2 closed	256+8	256+8	32	16
MULTISCAN++S1-256B	4 open or 2 closed	256+8	256+8	32	16
MULTISCAN++S1-128B	4 open or 2 closed	128+8	256+8	16	16
MULTISCAN++S1-64B	2 open or 1 closed	64+8	128+8	8	8
MULTISCAN++S1-32B	2 open or 1 closed	32+8	64+8	4	4
MULTISCAN++S1-16B	2 open or 1 closed	16+8	6+32	2	2



- **ATEX and SIL 1 certified.**
- **Up to 4 open or 2 closed RS485 (EIA-485) galvanic isolated serial lines.**
- **Up to 256 inputs (both 4-20 mA and loop daisy-chained)**
- **Up to 256 O/C or relay outputs via remote modules and 8 relays on-board the control unit.**

All devices connected to the loops feature galvanic isolation to protect the system from any electric noises coming from the field.

A broad range of self-testing facilities are implemented to detect and localize possible faults.

The backlit graphic LCD display provides a precise indication of the gas concentration being measured. A RS232C serial port allows the PC connection to the CPU board for the panel configuration and supervision.

Report from the event memory or real time printouts can be obtained by connecting a printer to the parallel printer port.

The panels can either be housed in an IP65 ABS box or in a 19" 6U rack

Technical specifications	
Housing:	19" 6U (HE) rack or ABS cabinet 470 x 426 x 148 mm.
Inputs:	8 x 4-20mA inputs on-board the panels. Up to 256 gas detectors can be connected as analogue 4-20mA detectors via 8-input remote cards type STG/IN8-S or addressable gas detectors directly loop connected (daisy chain mode)
Outputs:	264 outputs connected like: 256 programmable on the Open Collector/relay output modules and 8 relays on-board the control unit (6 relay for the MULTISCAN++S1-16)
Relay contact rating:	16A, 250 Vac (relays on-board the control panel) for MULTISCAN++S1-256, 128 & 64 8A, 250 Vac (relays on-board the control panel) for MULTISCAN++S1-16
Serial Ports:	4 RS485 ports for MULTISCAN++S1-256, 128 2 RS485 ports for MULTISCAN++S1-64 and 32 1 RS485 port for MULTISCAN++S1-16 and 1 RS232 for PC connection
Power Supply	24 Vdc \pm 10% (Rack) or 230Vac (Box)
Power consumption:	Max 10 VA
Display:	Graphic Liquid Crystal Display (LCD)
Visual indications LED:	11 double LED on the front panel
Temperature:	Operating 0-55°C Storage -20 / +60 C°
Relative humidity:	Operating 15-85% Storage 5-85% (non condensing)

CODE	DESCRIPTION
STMTS/S1	MULTISCAN++S1 gas control panel. 4 x RS485 type open bus lines or 2 closed loops. 256 Analog 4-20 mA gas detectors connected through remote 8-input modules or addressable gas detectors daisy chained to the RS485 control panel's loops and 8 x 4-20mA inputs on-board. 8 relay outputs and up to 256 O/C or relay outputs via remote modules. The panel comes complete with 1 parallel printer port and 1 RS232 serial port for PC connection. Housed in a 19" 6 U rack (24 Vdc power supply is required).
STMTS/S1-256B	MULTISCAN++S1 gas control panel. 4 x RS485 type open bus lines or 2 closed loops. 256 Analog 4-20 mA gas detectors connected through remote 8-input modules or addressable gas detectors daisy chained to the RS485 control panel's loops and 8 x 4-20mA inputs on-board the panel. 8 relay outputs and up to 256 O/C or relay outputs via remote modules. The panel comes complete with 1 parallel printer port and 1 RS232 serial port for PC connection. Housed in IP65 rated ABS box
STMTS/S1-128B	MULTISCAN++S1 gas control panel. 4 x RS485 type open bus lines or 2 closed loops. 128 Analog 4-20 mA gas detectors connected through remote 8-input modules or addressable gas detectors daisy chained to the RS485 control panel's loops and 8 x 4-20mA inputs on-board the panel. 8 relay outputs and up to 256 O/C or relay outputs via remote modules. The panel comes complete with 1 parallel printer port and 1 RS232 serial port for PC connection. Housed in IP65 rated ABS box
STMTS/S1-64B	MULTISCAN++S1 gas control panel. 2 x RS485 type open bus lines or 1 closed loop. 64 Analog 4-20 mA gas detectors connected through remote 8-input modules or addressable gas detectors daisy chained to the RS485 control panel's loops and 8 x 4-20mA inputs on-board the panel. 8 relay outputs and up to 128 O/C or relay outputs via remote modules. The panel comes complete with 1 parallel printer port and 1 RS232 serial port for PC connection. Housed in IP65 rated ABS box
STMTS/S1-32B	MULTISCAN++S1 gas control panel. 2 x RS485 type open bus lines or 1 closed loop. 32 Analog 4-20 mA gas detectors connected through remote 8-input modules or addressable gas detectors daisy chained to the RS485 control panel's loops and 8 x 4-20mA inputs on-board the panel. 8 relay outputs and up to 64 O/C or relay outputs via remote modules. The panel comes complete with 1 RS232 serial port for PC connection. Housed in IP65 rated ABS box
STMTS/S1-16B	NOVELTY: MULTISCAN++S1 gas control panel. 1 x RS485 type open bus line. 16 Analog 4-20 mA gas detectors connected through remote 8-input modules or addressable gas detectors daisy chained to the RS485 control panel's loop and 8 x 4-20mA inputs on-board the panel. 6 relay outputs and up to 32 O/C or relay outputs via remote modules. The panel comes complete with 1 RS232 serial port for PC connection. Housed in IP65 rated ABS box

MULTISCAN++S1 ACCESSORIES

CODE	DESCRIPTION
STG/MTSS1-CONF	Windows PC software for MULTISCAN++S1 control panel programming. Running under Windows XP, VISTA, WIN7, 8, 8.1, 10. The configuration software is supplied along with the control panel
STG/IN8S	High safety 8-input remote module with improved performance for MULTISCAN++S1 control panel.
STG/OUT16S	High safety 16-output remote module (Open collector type) with improved performance.
STG/8REL	Plug and play relay board to be connected to STG/OUT16 to provide 8 relay outputs
STG/SER++	Additional Serial board to implement serial lines in MULTISCAN++S1
STG/TCPIP	TCP/IP interface for LAN connection
VMB/267V40	Metal Cabinet with enclosed a 24Vdc 4A Power Supply to house one of the above remote cards
STG/BOX	IP55 Plastic box to house one STG/IN8-S or STG/OUT16-S card

