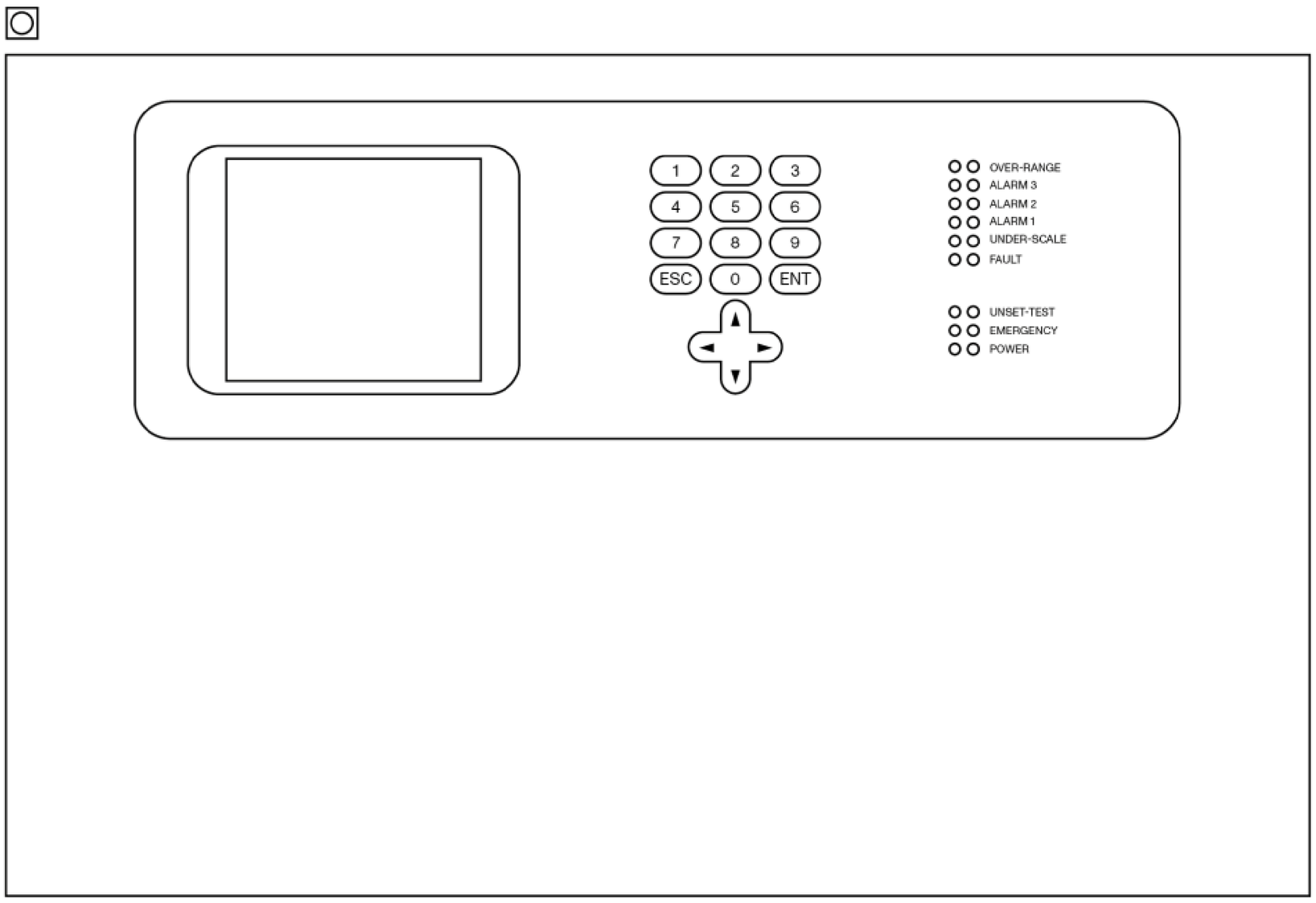
SENSITRON S.R.L. - All rights reserved - www. sensitron.it

MULTISCAN++MED



Datasheet

DS5032 Rev. 2 15/06/2023
Sensitron S.r.l., Viale della Repubblica 48, Cornaredo (MI)
sales@sensitron.it
TEL. +390293548155 FAX. +390293548089

The MULTISCAN++MED is a gas detection control unit designed to meet the widest range of flexibility required by the marine industry. The control panel is based on a powerful microprocessor which provides a wide range of self-diagnostic procedures to detect and locate possible faults.
The standard version can manage up to 72 gas detectors. The detectors can be either of addressable type, directly connected on the buses, or 4-20 mA analogical types connected via 8-input STG/IN8-S2MED remote modules. The standard system architecture also provides up to 64 freely programmable Open Collector outputs provided by STG/OUT16-S2MED modules, always connected on the RS485 bus. Also 8 relays onboard the panel are included.
The gas panel is placed in a robust metal cabinet with anti-corrosion painting.

The control unit MULTISCAN++MED is certified for marine installations according to the Marine Equipment Directive 2014/90/EU and the China classification society. The gas panel is also certified SIL2 and it is ATEX marked as follows:

CE 0722 Ex II (2) G



2923/2023

Functionalities

Programming	Configuration with Sensitron software
Operating levels	3, set via password
Set / Unset detectors	Possibility of unset one or more channels for field maintenance
Test	Possibility of channels test field
Supervision	Efficient Modbus protocol for system supervision
Event log	The event log can be visualised from the gas panel or by the software
Date and time	Internal clock with backup to keep the date and time even after a shutdown
Visual indications	LCD display 18 status LEDs
Acoustic indications	Buzzer 55 dB at 1m
Front panel buttons	Numbers from 1 to 9, ENT ESC and four directional buttons

Electrical data	
Power supply	230 Vac +/-10% 50 Hz
Absorption	Max 20 VA
Available current	3 A for field connections available two auxiliary power supply of 1.1 A each one
Input modules	STG/IN8-S2MED: 8 inputs 4-20 mA
Output modules	STG/OUT16-S2MED: 16 Open Collector outputs, convertible into relays with the STG/8REL module
Inputs	8+8 4-20 mA inputs onboard the panel. A maximum of 64 (standard) 256 (optional) gas detectors can be connected as: • Analogue 4-20 mA detectors via 8-input remote cards type STG/IN8-S2MED • Addressable gas detectors directly loop connected (daisy chain mode)
Outputs	8 relays onboard the panel The outputs can be expanded via the output modules. Up to 128 (standard version) or 264 (optional version) can be managed.
Relays contact ratings	10A a 250 Vac main board, 16A 250 Vac 8REL modules
RS485 ports	2 RS485 ports expandable to 4
Serial ports	1 x RS232 for programming, supervision and firmware updating 1 x printing parallel port
Communication protocol	Galileo or Modbus for field communication Modbus for the supervision
Environmental conditions	
Storage temperature	-20 / +60°C
Operating temperature	0 / +50°C
Operating humidity	15 / 85% RH non condensing
Box	
Material	Steel sheet with surface treatment
Dimensions	500 x 500 x 210 mm
Weight	16 kg
Cable entry	Open the panel on the underside of the cabinet
Wall fixing	Supplied with zinc-coated steel supports
IP grade	IP22

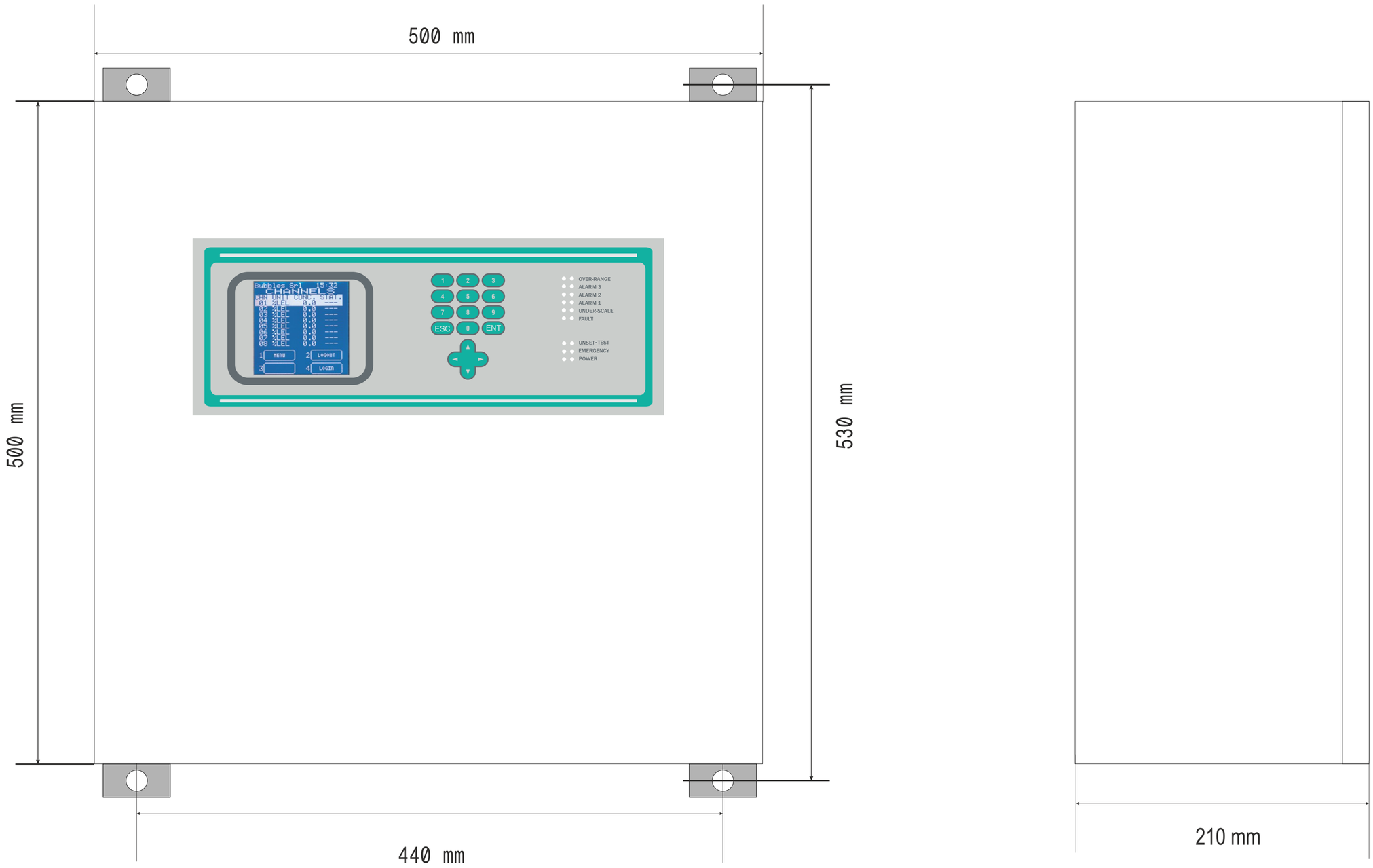
Compliance

MED	MED 2014/90/UE IEC 60092-504:2016 IEC 60533:2015
CCS	Chapter 3, Part Six of China Classification Society “Rules for Classification of See-going Steel Ships” 202 Chapter 1&2, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships 2022 Chapter II-2 of SOLAS IEC 60079-29-1: 2020
ATEX	ATEX Directive 2014/34/UE EN IEC 60079-0:2018 EN 60079-29-1:2016
SIL	EN 61508:2010 parts 1, 2, 3, 4, 5, 6, 7 EN 50402:2017

Product codes

STMTS/S2-64MED	MULTISCAN++MED with 8+8 analog 4-20 mA gas detectors connected to the gas panel. Up to 64 gas detectors connected through remote 8-input modules or addressable gas detectors daisy chained to the RS485 loops. 8+8 relays outputs oboard the panel and up to 128 O/C or relay outputs via remote modules.
STMTS/S2-64CCS	STMTS/S2-64MED CCS certified
STG/MTSS2-CONF	Windows PC software for MULTISCAN++MED control panel programming
STG/IN8-S2MED	High safety 8-input remote module MED certified
STG/IN8-S2CCS	High safety 8-input remote module CCS certified
STG/OUT16-S2MED	High safety 16-output remote module MED certified
STG/OUT16-S2CCS	High safety 16-output remote module CCS certified
STG/8REL	Plug and play relay board to be connected to STG/OUT16S2-MED to provide 8 relay outputs

Mechanical drawings



SENSITRON S.R.L. - All rights reserved - www. sensitron.it

Contatti/Contacts

Viale della Repubblica, 48
20007 Cornaredo (MI) – ITALY

+39 0293548155
sales@sensitron.it
sensitron.it

Sensitron S.r.l.