

SCAN-200 series

1 ... 64 detector inputs

1 ... 64 relay outputs

General:

The combination of Avaco Systems & Safe Solutions is a service package that includes skilled expert services, design assistance, high-quality equipment deliveries and after-sales marketing consultations.

Scan-200-EA is a gas detection controller designed for the needs of the demanding industry.

Due to its decentralized structure it is economically feasible to realize a detection system for a large factory area with only one controller.

The **Scan-200-EA** controller can facilitate up to 16 measuring points.

With **Scan-200-AK** sub-controller the gas detection system can be extended to facilitate up to 64 measuring points and freely defined relays. The units are connected to the main unit with a differential serial interface. This gives the possibility to place the units up to one kilometre from the main unit.

The main unit has a graphical display.

The gas concentration can be expressed in numeric form at different number sizes as well as bar graph.

From the display you can retrieve online trends for each input channel separately at different time intervals according your choice.

Operation:

The unit gives alarm at three levels according to the set gas concentration limits at each input channel. Any of the relays can be activated at any alarm level.

The alarms, faults and corrections will be recorded into an alarm history, easy to retrieve from the memory.

Together with DGT sensors / transmitters the Scan-200 gas detection controller forms a reliable and efficient system.

Sensor technologies and cabling:

- SnO₂ Solid State sensors (semiconductor sensors) 4 - wire 2 x (2+1) x 0,5 mm²
- Catalytic (pellistor) sensors 4 - wire 2 x (2+1) x 0,5 mm²
- Electro-Chemical cells 2 - wire 2 x (2+1) x 0,5 mm²
- NDIR (infrared) sensors 4 - wire 2 x (2+1) x 0,5 mm²

Certificates:

Bureau Veritas Type approval certificate
48510/AO BV for marine use.



Scan-200-EA Main Control Unit



Scan-200-AK Sub Controller



DGT serial detectors

Scan-200 serial

gas detection controllers



Technical data:

CONSTRUCTION:

Control logics:	Programmable embedded control logic designed for gas detection
Display:	Graphical backlit LCD display, indicators for alarm classes A, B ja C and fault alarm
Input unit:	1-8 pcs of 8 input units, current signals ((0)4...20 mA)
Relay unit:	1-8 pcs of 8 relay units, relay contacts, 230 V AC 1,0 A for resistive load

ALARMS:

Alarm levels:	Addressable alarm data for high and / or low concentrations from each channel is shown on the display, the last 64 alarm data are stored in the alarm history Three alarm levels which can be programmed according to environmental demands and the customer's needs
Relay actions:	Relay Actions in Alarm situations
Normal	Controlling function will be released when the gas concentration has recovered to normal
Acknowledged:	Controlling function will be released by acknowledging the alarm
Latched:	Controlling function can be released by acknowledging the alarm when the as concentration has recovered to normal
Wireless alarm data:	Alarm data as SMS message to a mobile phone (option)
Digital output:	modem / service and RS485 interface (option)
Industrial field bus:	Profibus or Modbus field bus interface (option)

ENVIRONMENTAL:

Temperature:	Operating temperature range -10...+45°C
Humidity:	Operating humidity 10...90 % RH non-condensing
Air pressure:	Normal air pressure

ELECTRICAL:

Operating voltage:	230 VAC / 24 VDC
Cable requirements:	Power supply MMJ 3 x 1,5 mm ² or equal Signal JAMAK 2 x (2+1) x 0,5mm ² or equal Bus: UNITRONIC BUS LD 3 x 2 x 0,22 mm ² + armoured twisted-pair cable, or equal
Power consumption:	184W (maximum load)

ENCLOSURE:

Installation:	Wall mounted
Material:	Steel plate, powder painted
Colour:	RAL 7035 (grey)
Degree protection:	IP54
Dimensions:	500mm x 500mm x 210mm or 500mm x 700mm x 250mm (width x height x depth)

STANDARDS:

The software complies with the standard EN 50271:
Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen – Requirements and tests for apparatus using software and / or digital technologies

CERTIFICATE:

Type approval for Marine use: Certificate nr. 48510 / AO BV (Bureau Veritas)



DGT gas detectors

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