Detector

innovative gas detection systems

GAS DETECTION SYSTEM

CATALYTIC SENSOR

CHARACTERISTICS FOR THE CATALYTIC DETECTORS

- The detector gives a linear 4 - 20 mA signal output.
- The detector is calibrated to the measuring range for the target gas.
- The measuring range is 0 - 100% LEL.
- Lifetime for the sensor element 4 - 5 years.

DGTKEX GAS DETECTOR

- The detector is designed to be installed in ATEX Zone 1, 21, 2 and 22 areas.
- The ATEX markings are II 2 G Ex d IIC T6 (Gas) and II 2 D Ex tD A21 T85°C IP65 (Dust).
- The detector is equipped with a clear LCD display.
- The material of the enclosure is Aluminium, the diameter is Ø 110 mm and the height is 127 mm.
- The ingress protection class is IP 66.
- The calibration is made non-intrusively with the IR Communicator.

DGTK2 GAS DETECTOR

- One type of the detector, DGTk2-ex, is designed to be installed in ATEX Zone 2 areas.
- The ATEX marking for the DGTk2-ex is II 3G Ex d nA IIC T4 Gc X.
- The detector is equipped with a LED indication light.
- The detector can be equipped with a relay output, buzzer and acknowledge button ('stand-alone' version).
- The material is cast Aluminium ja dimensions are 89 mm x 89 mm x 69 mm.
- The ingress protection class is IP 54.
- The calibration is made non-intrusively with the IR Communicator.

DGTkex

DGTk2, DGTk2r, DGTk2-ex, DGTk2r-ex

INFRARED SENSOR

CHARACTERISTICS FOR THE INFRARED DETECTORS

- The detector gives a linear 4 - 20 mA signal output.
- The detector is equipped with a sensor suitable for the target gas and it is calibrated to the measuring range.
- The measuring range is 0 - 5% CO2 / 0 - 100% LEL.
- The lifetime for the sensor is approx. 5 years.

DGTEEX GAS DETECTOR

- The detector is designed to be installed in ATEX Zone 1 and 2 areas.
- The ATEX marking is II 2 G Ex d IIC T5.
- The detector is equipped with a clear LCD display.
- The material of the enclosure is Aluminium, the diameter is Ø 110 mm and the height is 127 mm.
- The ingress protection class is IP 66.
- The calibration is made non-intrusively with the IR Communicator.

DGTEC2 GAS DETECTOR

- One type of the detector, DGTi2-ex, is designed to be installed in ATEX Zone 2 areas.
- The ATEX marking for the DGTi2-ex is II 3G Ex d nA IIC T4 Gc X.
- The detector is equipped with a LED indication light.
- The detector can be equipped with a relay output, buzzer and acknowledge button ('stand-alone' version).
- The material is cast Aluminium ja dimensions are 89 mm x 89 mm x 69 mm.
- The ingress protection class is IP 54.
- The calibration is made non-intrusively with the IR Communicator.

DGTiex

DGTi2, DGTi2r, DGTi2-ex, DGTi2r-ex

ELECTRO-CHEMICAL SENSOR

CHARACTERISTICS FOR THE ELECTRO-CHEMICAL DETECTORS

- The detector gives a linear 4 - 20 mA signal output.
- The detector is equipped with a sensor suitable for the target gas and it is calibrated to the measuring range.
- The measuring range is set according to the sensor type, e.g. for the Oxygen sensor 0 - 25% volume, for the Carbon Monoxide sensor 0 - 300 ppm.
- The sensor lifetime is 6 - 24 months.

DGTEEX GAS DETECTOR

- The detector is designed to be installed in ATEX Zone 1, 21, 2 and 22 areas.
- The ATEX markings are II 2 G Ex d IIC T6 (Gas) and II 2 D Ex tD A21 T85°C IP65 (Dust).
- The detector is equipped with a clear LCD display.
- The material of the enclosure is Aluminium, the diameter is Ø 110 mm and the height is 127 mm.
- The ingress protection class is IP 66.
- The calibration is made non-intrusively with the IR Communicator.

DGTEC2 GAS DETECTOR

- One type of the detector, DGTec-ex, is designed to be installed, together with a galvanic isolator, in ATEX Zone 0, 1 and 2 areas, and another type, DGTec2-ex is designed for ATEX Zone 2 areas.
- The ATEX markings are II 1 G Ex ia IIC T4 (DGTec-ex) and II 3G Ex d nA IIC T4 Gc X (DGTec2-ex).
- The detector is equipped with a LED indication light.
- The material is cast Aluminium ja dimensions are 89 mm x 89 mm x 69 mm.
- The ingress protection class is IP 54.
- The calibration is made non-intrusively with the IR Communicator.

DGTeex

DGTec2, DGTec2-ex, DGTec-ex, DGTm3

SEMI-CONDUCTOR

CHARACTERISTICS FOR THE SEMICONDUCTOR DETECTORS

- The detector gives a linear 4 - 20 mA signal output.
- The detector is equipped with a sensor suitable for the target gas and it is calibrated to the measuring range.
- The measuring range is set according to the target gas.
- The sensor lifetime is approx. 4 years.

DGTT2 GAS DETECTOR

- One type of the detector, DGTt2-ex, is designed to be installed in ATEX Zone 2 areas.
- The ATEX marking for the DGTt2-ex is II 3G Ex d nA IIC T4 Gc X.
- The detector is equipped with a LED indication light.
- The detector can be equipped with a relay output, buzzer and acknowledge button ('stand alone' version).
- The material is cast Aluminium ja dimensions are 89 mm x 89 mm x 69 mm.
- The ingress protection class is IP 54.
- The calibration is made non-intrusively with the IR Communicator.

DGTt2, DGTt2r, DGTt2-ex, DGTt2r-ex

SCAN20 SERIES GAS MONITORING CONTROLLERS

CHARACTERISTICS FOR THE SCAN20 SERIES CONTROLLERS

The controller is designed for use in the demanding industry. To the series belong SCAN22, to which you can connect 1 - 2 detectors and SCAN24 for 1 - 4 detectors. The controller receives 4 - 20 mA signals from the gas detectors and convert them into gas concentrations.

- The controller has a bright and clear LCD display, in which you can see all the monitored channels.
- Three freely chosen alarm levels can be set.
- There are seven relay outputs in the controller.
- In the event of alarm, the buzzer in the controller will be activated and the LED indication lights express the seriousness of the alarm as well as desired relays will be activated.
- Wireless remote alarm by SMS message through outside GSM modem is available (option).
- Two freely scalable 4-20mA standard current signal outputs are available (option).

SCAN24

CHARACTERISTICS FOR THE CASING

- The material of the casing is ABS polymer.
- The dimensions are 237 mm x 259 mm x 97 mm.
- The ingress protection class is IP 66.

SCAN200E SERIES GAS MONITORING CONTROLLERS

CHARACTERISTICS FOR THE SCAN200E SERIES CONTROLLERS

- The controller is designed for use in the demanding industry.
- Casing options are SCAN200ED, SCAN200ER, SCAN200EA and possibility to mount into a 19" cabinet as well.
- The controller is designed for 1 - 64 detectors and 1 - 128 relays.
- The system is modular; to the controller you can connect 1 - 8 sub-controllers, thus saving cabling work.
- Using a differential RS485 interface the maximum distance between the sub-controller and the main gas detection controller is 1 km.
- The controller receives 4 - 20 mA signals from the gas detectors and convert them into gas concentrations.
- The controller has a bright and clear LCD display, in which you can see 8 monitored input channels at a time.
- The software in the controller is versatile: addressable alarms, three alarm levels per channel, bar, number or trend display, alarm event history.
- In the event of alarm, the buzzer in the controller will be activated and the LED indication lights express the seriousness of the alarm as well as desired relays will be activated.
- Wireless remote alarm by SMS message through outside GSM modem is available (option).
- Industrial field buses (Profibus, Modbus, Anybus...) are available (option).

SCAN200EA

CHARACTERISTICS FOR THE CASING

SCAN200EA Controller

- The controller can facilitate all together 4 modules, in one module there is place for 8 input channels or 8 relays.
- The casing material is powder painted steel.
- The dimensions are 500 mm x 500 mm x 210 mm.
- The ingress protection level is IP 54.
- The controller will be customized (with modules, modem, field bus...).

SCAN200ER Controller

- The controller can facilitate all together 6 modules, in one module there is place for 8 input channels or 8 relays.
- The casing material is powder painted steel.
- The ingress protection level is IP 55.
- The controller will be customized (with modules, modem, field bus...).