

Room Setpoint Sensor 0 ... 1 kOhm

Room setpoint sensor, 0 ... 1 kOhm passive sensor in hazardous locations zone 1, 2

Type SGR-2G ATEX compliant

APPLICATION

SGR-2G setpoint sensors. In combination with Ex-i transducer Type EXL-IMU-1 with intrinsic safe circuit the sensors may be used in hazardous areas zones 1, 2. The passiv restistor output of 0 .. 1 kOhm sensor is changed into an active signal of 0(2)... 10 V- and/or 0(4)... 20 mA. Application area is non condense, aggressive air in living, work and office rooms as well as industrial areas.

TECHNICAL DATAS

TypeSGR-2GSupplyby Ex i transducerSensorPotentiometer 0 ... 1 kOhm

Connection screw clamps, 0,14 - 1,5 mm²
Enclosure Plastic, IP 30, for wall and flush monting

Dimension and weight Plastic, IP 30, for wall and flush monting

Protection class simple apparatus, acc. to EN 60079-11 CE 94/9/EC (ATEX)

Included in price SGR-2G

Installation area Hazardous locations in zone 1, 2

MOUNTING AND INSTALLATION

Notes to mechanical installation. The installation must comply with relevant directives and standards Particularly with regard to:

- Comply with the EMC directive
- Avoid parallel wiring of power cable this cause measurement errors.
- Recommentation: Use shielded cable. Connect shield at PLC or control room area, sensor side is open



Ex-i CIRCUITS - TABLE 1

Operation values maximum at terminal

Simple apparatus suitable for Zone 1, 2 Only for connecting to intrinsically safe circuits with max values

 Voltage
 Uo
 9 VDC

 Current
 Io
 5 mA

 Power
 Po
 10 mW

 Capacity
 Ci
 0 μF

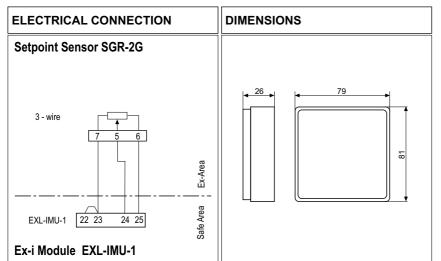
 Inductivity
 Li
 0 mH

The maximum values must not be exceeded!

Please check your external capacities and inductivities in acc. to the length of the cable and the methode of installation.

RECOMMENDED TRANSDUCER

- · Transducer Mfr. Schischek Type EXL-IMU-1.
- In combination with transducer EXL-IMU-1 is intrinsic safety proof for simple circuits given.
- Manufacturer declaration zone 1 and 2.



ATTENTION!

- For installation, use and maintenance the official standards and rules must be applied.
- The energy of intrinsically safe circuits are below the level to start an explosion in case of a spark..
- Intrinsic safe circuits must be installed with light blue coloured and separate from non intrinsic safe circuits.
- The sensor is passiv and potential free for use in hazardous locations in zone 1, 2.
- Pay attention to the max values for wiring, listed in table 1.
- · Avoid electrostatic discharge.
- · Only wet cleaning.

Subject to change