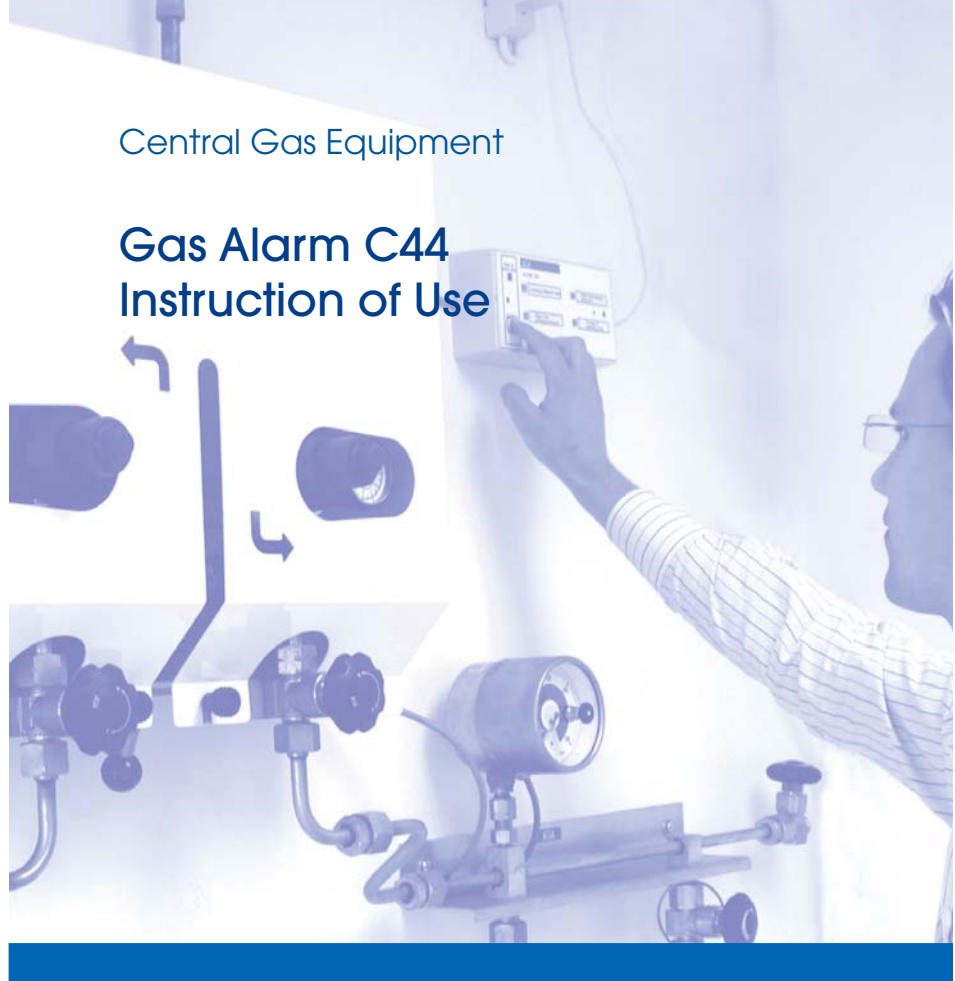Central Gas Equipment

Gas Alarm C44
Instruction of Use

gce mediline®

Safety Requirements
- Read this instruction before use of the product. Always follow this instruction!
- The product shall only be used for the purposes described in this instruction.
- Before use, to guarantee the safety of the patient, check the equipment and the accessories used with the product, so that data and performance comply with the intended use of the product.
- The product must not, under any circumstances be modified by other than the manufacturer.

Safety Directions
- Always follow the environmental requirements for work with oxygen.
- Never handle the product with oil or grease on your hands and do never oil or grease the product.
- Do not let any grease or oil get in contact with the product.
- Never use the product near fire, cigarettes or flammable materials.
- Never smoke nearby the product.
- Always protect the product from dust, water and unfavourable environments which can affect the quality of the products.
- If the user suspects or knows that the product is damaged or malfunctioning, the usage shall immediately be stopped, and the product be returned to the supplier.

Intended Use
The C44 is a gas pressure alarm intended for small gas manifolds, stabilizers, and for example pressure gauges/pressure switches connected directly to the main line.

Lifetime
The total lifetime of the product is maximum 10 years.

Recycling
The product shall be recycled according to local regulations.

Instruction
The C44 is a microprocessor based alarm for four alarm channels and is connected to the pressure sensing device with volt free contacts, for example pressure gauges or pressure switches. It is voltage fed with 12 VAC. Supply voltage is fed by the enclosed transformer. Visible from the front is an integrated push button TEST/MUTE. If there is no alarm condition, all the light emitting diodes and the buzzer can be tested when the button is pushed. Should there be an alarm condition, the signal will be suppressed for 15 minutes. If an alarm has been silenced and a new one occurs, the MUTE function is cleared and the signal comes back until the cause has been attended to and the MUTE button is pushed again.
The C44 alarm is equipped with an environmentally friendly rechargeable NiMH back-up battery. The sound volume is adjustable via a potentiometer placed behind the cover. At delivery the sound volume is set at medium.

Article Numbers
325 197 710   for recessed mounting
325 197 711   for surface mounting

One sheet plastic strips for inserting will be delivered with the alarm. Cut out the plastic strips, loosen the cover lid, and insert the respective plastic strip into the correct pocket.

Please note: All electronics are subjected to static electricity. Therefore, when working with the C44 alarm grounded wristbands should be used.

Technical Data

Supply voltage	12 VAC
Current consumption	about 300 mA
Charging current	about 4 mA
The C44 has been EMC tested and approved according to EN 60 601-1-2 (Emission and immunity).	
Recommended cable	signal cable 0.25 mm^2
	feed 0.75 mm^2
Maximum cable length between C44 and transmitter	3 metres
Outlets	4 volt free changing relay contacts.
Breaking current	1A, 30 W

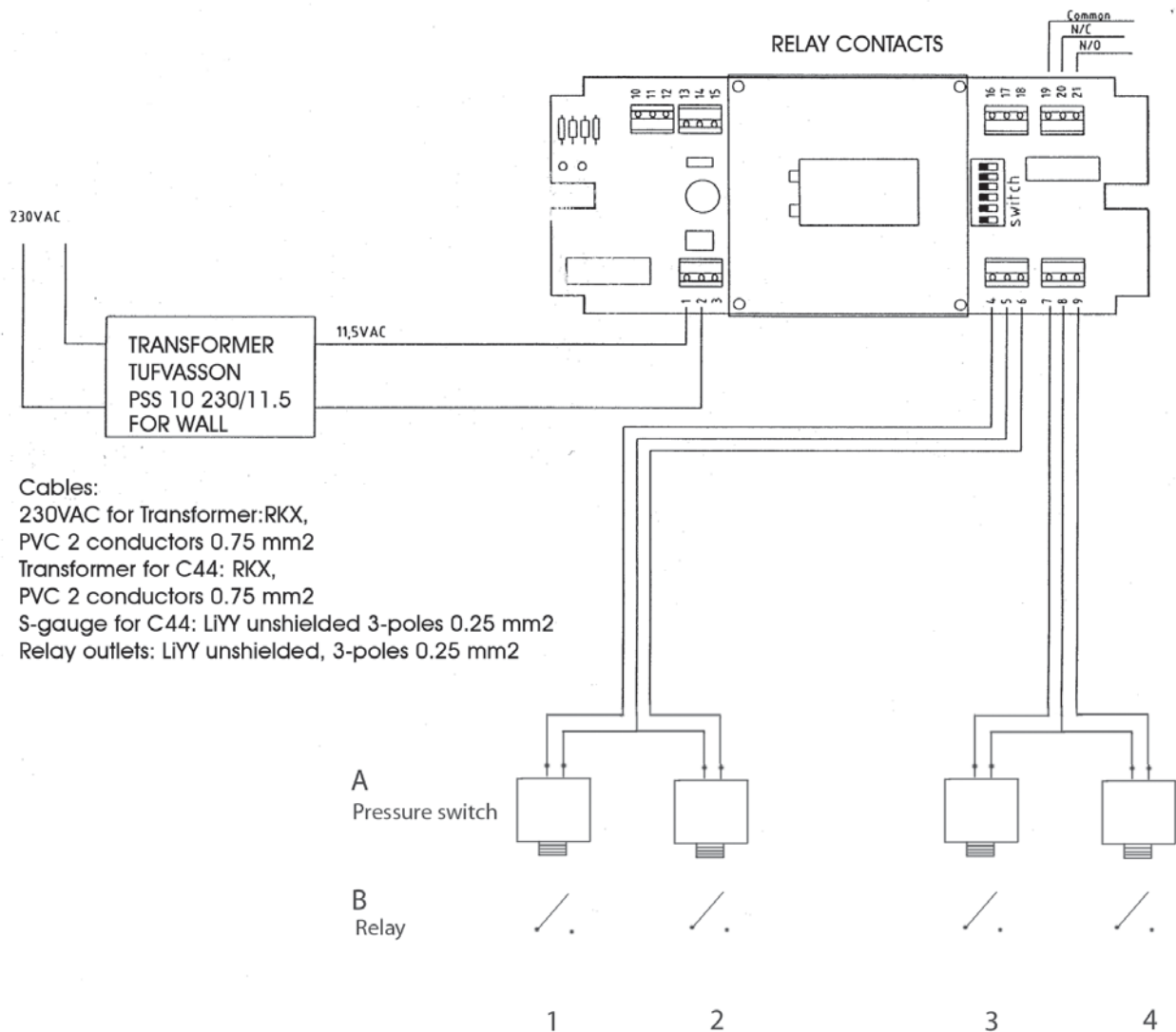## Instruction for Connection of Gas Alarm C44

There is a software controlled alarm delay of about four seconds built in so as to prevent false alarm caused by vibration prone transmitters.

If one of the alarm channels is not used it is possible to disenable this channel by installing a switch on the components side of the circuit board. All alarms for that channel will be suppressed. The switch contains six poles according to the following table:
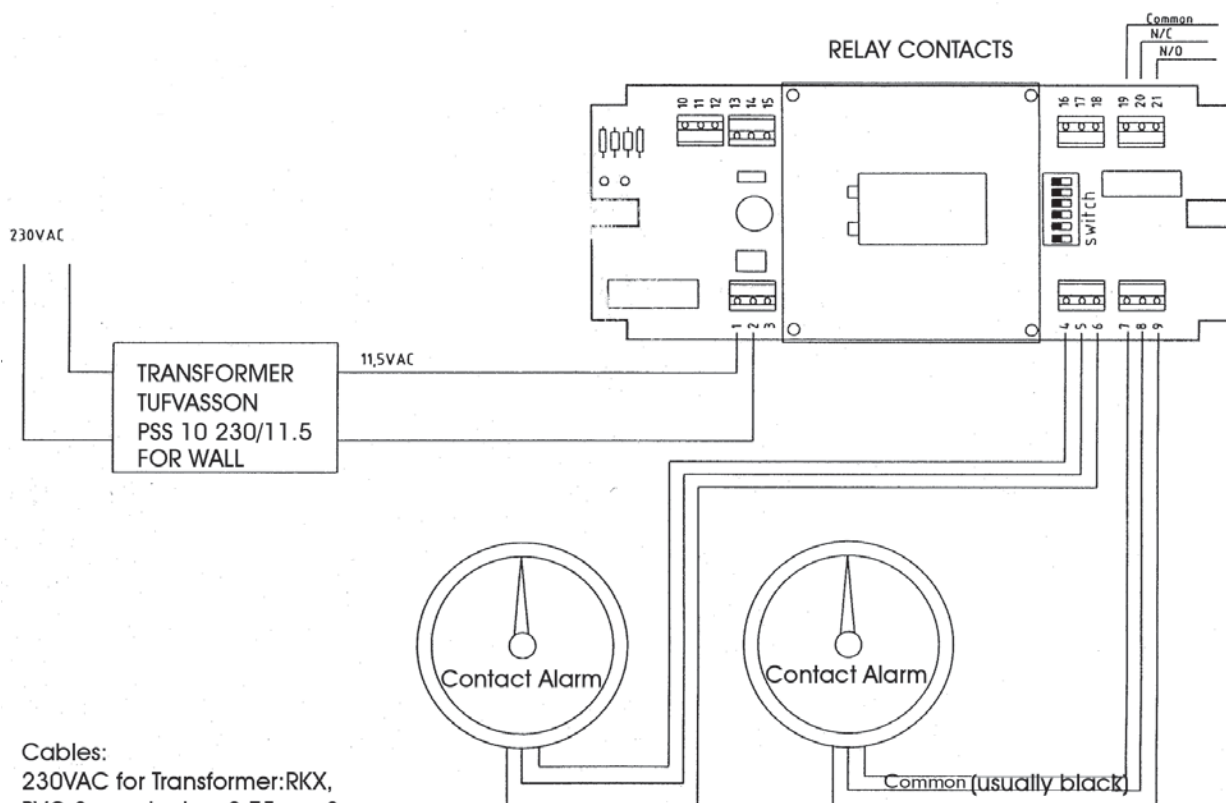
Switch #	Blocked connection #	LED #	Relay connection #
1	Pole number 4	1	10-11 N/C, 10-12 N/O
2	Pole number 6	2	13-14 N/C, 13-15 N/O
3	Pole number 7	3	16-17 N/C, 16-18 N/O
4	Pole number 9	4	19-20 N/C, 19-21 N/O
5	Sound signal. EN 475:1995 or alarm signal.		
6	Red or orange (A or B alarm) alarm indication LED 4.		

A: Pressure switch, max. 4 pieces.
B: Switches/relays, max. 4 pieces.
C: Contact gauge 2 alarm points.

Alternatives A and B

RELAY CONTACTS

Common
N/C
N/O

230VAC

TRANSFORMER
TUFVASSON
PSS 10 230/11.5
FOR WALL

11,5VAC

switch

Cables:
230VAC for Transformer:RKX,
PVC 2 conductors 0.75 mm2
Transformer for C44: RKX,
PVC 2 conductors 0.75 mm2
S-gauge for C44: LiYY unshielded 3-poles 0.25 mm2
Relay outlets: LiYY unshielded, 3-poles 0.25 mm2

A
Pressure switch

B
Relay

1   2   3   4

Alternative C

RELAY CONTACTS

230VAC

TRANSFORMER
TUFVASSON
PSS 10 230/11.5
FOR WALL

11,5VAC

Common
N/C
N/O

switch

Contact Alarm

Contact Alarm

Common (usually black)

Cables:
230VAC for Transformer:RKX,
PVC 2 conductors 0.75 mm2
Transformer for C44: RKX,
PVC 2 conductors 0.75 mm2
S-gauge for C44: LiYY unshielded 3-poles 0.25 mm2
Relay outlets: LiYY unshielded, 3-poles 0.25 mm2

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