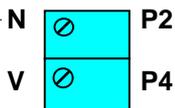


# $\Delta p$ - SENSOR-TRANSMITTER DMC-3\*-ALU-Ex for Ex-Zone 2

Z 0049221\_003\_DMC3\_ALU\_Ex\_GB

## 1. Service instructions:



### Trimmer-Potis P2 + P4:

P2 = N = Zero point

P4 = V = end of scale

### When using a $\Delta p$ -SENSOR-TRANSMITTER with a range of $\leq 20$ mbar, please consider the following:

**Pot. N = zero point.** If the appliance has been transported and / or mounted not vertically (gravity influence on the sensor membrane), please adjust the zero point with P2 as soon as the operating temperature has been reached. Please pay attention: The analogoutput signal is time delayed from the  $\Delta p$ -pressure signal by the integrated electronic  $\Delta p$ -damping.

## 2. Electric connection diagram:

Do not open the enclosure when explosive atmosphere may be present. As explosion protection the unit is sealed inside and has for the electric connection a connected, screened cable as follows:

<b>2.1. 110-115 / 230-240 V, 50-60 Hz</b>  <b>Cable 1: Power:</b> Earth protection wire = green-yellow Phase L = black No.: 1 Neutral N = black No.: 2  <b>Cable 2: Analogueoutputs:</b> Shield: The screen of the cable is connected with the earth protection wire. When cutting the cable, the screen must be connected again with the earth protection wire.  Earth protection wire = green-yellow 0-10 V , Load = 5 k $\Omega$ , = black No.: 3 Pluspol 0-20 mA , Load = 500 $\Omega$ , = black No.: 4 Pluspol 0-10 V, 0-20 mA black No.: 2 Minuspol  alternative:  Earth protection wire = green-yellow 0-10 V , Load = 5 k $\Omega$ , = black No.: 3 Pluspol 4-20 mA , Load = 500 $\Omega$ , = black No.: 4 Pluspol 0-10 V, 0-20 mA black No.: 2 Minuspol	<b>2.2. 24 V DC, 5-wires, screened cable</b>  <b>Power connection:</b>  Shield: The screen of the cable is connected with the earth protection wire. When cutting the cable, the screen must be connected again with the earth protection wire.  Earth protection wire = green-yellow + 24 V = black No.: 1 - 24 V, 0-10 V, 0-20 mA = black No.: 2  <b>Analogueoutputs:</b>  0-10 V , Load = 5 k $\Omega$ , = black No.: 3 Pluspol 0-20 mA , Load = 500 $\Omega$ , = black No.: 4 Pluspol  alternative:  0-10 V , Load = 5 k $\Omega$ , = black No.: 3 Pluspol 4-20 mA , Load = 500 $\Omega$ , = black No.: 4 Pluspol
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## 3. Mounting:

A gas explosion proof Transmitter can be used only in areas, which the user has declared in his Ex-Protection-Document as Ex-Zones 2. The installation in areas Ex-Zone 0 or Ex-Zone 1 is not allowed. It is not allowed to remove the pressure connectors because they have integrated filters and air-gaps of 25x0,3x0,3mm. While servicing change the filters and not remove them.

A dust explosion proof Transmitter can be used only in areas, which the user has declared in his Ex-Protection-Document as Ex-Zones 22. The installation in areas Ex-Zone 20 or Ex-Zone 21 is not allowed.

The enclosure can be mounted with 4 borings in the back panel of the aluminium enclosure D = 6,5 mm, height = 110 mm x width = 140 mm. Please mount the back panel vertically.

For enclosures placed outdoors, the unit requires a roof as a protection against weather and sun influences. Direct sunshine can cause an extreme rise of the temperature inside of the unit and thus interferences. The explosion protection is not assured ! Do not mount the housings at filter wals which are vibrating. Apart from that, the unit mustn't be exposed to vibrations. The  $\Delta p$ -tubes and the electric cable outside the enclosure must be installed protected. A filter system in the  $\Delta p$ -tubes is required by the use of combustible dust. Preferably the  $\Delta p$ -tubes install out of metal with OD = 6mm, ID = 4mm.

If you use only **one** pressure connection (+ or -), then the other one that remains unused must be open and protected against dust and dirt. For this reason please use our GOLD-FILTER FT-S-1/8I-CE or a tube placed in a dust-free room. If the pressure-vacuum-measurement-tubes could get dirty, please install our FILTER FT-N\* or our PIPE-CLEANER PPC\*.

**Attention ! with pressure connectors 64VA:** In order to tighten or remove the nuts of the pressure connections, please use an open-jawed spanner 12 mm. The screwed connection at the appliance must in this case be fixed with a 14 mm spanner to avoid torsion. Otherwise, the appliance could be damaged.

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