

## Supplementary Instructions for the G 1111 vacuum-variants G 1111-xx-VAC

### Restriction of standard G 1111 in vacuum use

The standard G 1111 is especially suitable to measure rough vacuum via the pressure port very fast. Due to the water tight construction a complete evacuation of the instrument may degrade water protection: The keypad/display screen may break loose! If the instrument should be used in this application, we recommend removing the sealing O-ring of the battery compartment (p.r.t. figure).

Attention: The Instrument then is no more water and dust protected.

Alternatively, there are the specialized variants G 1111-xx-VAC available, which are described here.

### G 1111-xx-VAC: With pressure compensating element

The G 1111-xx-VAC do have an additional compensation port besides the pressure-connection-port. Therefore no dangerous pressure difference can build up inside at the one side, and at the other particles are kept from ingress into the instrument during the vacuum relaxation. As the compensating element works as a fine porous filter. The extreme small pores as well give a certain water protection.

compensation      pressure connection



Therefore, the instrument is suitable for rough use in industrial packaging machines as well, where e.g. > 1000 packaging processes per hours are completed.

The instrument variant G 1111-xx-VAC can substitute fully encapsulated instruments very reasonable.

Pore width of pressure-compensating element: 40 - 50  $\mu\text{m}$   
(equals art. GDZ-34)

Due to the universal G1/8 pressure port, other filter elements can be equipped as well.

### As of firmware version 1.3 (11.2020):

The buttons can be deactivated automatically when the vacuum is applied: Even when evacuated in foil, the buttons are not activated by negative pressure.  
An additional adjustment ensures better accuracy in the vacuum range.

## Addition to chapter: ***Opening the configuration menu***

|                 |                                                                       |
|-----------------|-----------------------------------------------------------------------|
| <b>ModE KEY</b> | Set key mode                                                          |
| <b>Std</b>      | Normal mode - no locking of the keys in case of negative pressure     |
| <b>bAG</b>      | keystroke is suppressed if the value falls below the limit of 700 hPa |

## Addition to chapter: ***Error and system messages***

| Display    | Meaning            | Possible causes  | Remedy                        |
|------------|--------------------|------------------|-------------------------------|
| <b>KEY</b> | Device was         | Pressure below   | Wait for shutdown (30s)       |
| <b>bAG</b> | switched on at too | limit value when | Call up the adjustment menu   |
| <b>Err</b> | low pressure       | switching on     | Set <b>ModE</b> to <b>Std</b> |

## Addition / Change to chapter ***Technical data***

G 1111-xx-VAC

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Genauigkeit            | Typ.: $\pm 2 \text{ hPa}$ (@ 5..30 °C)<br>@ 0...20 hPa: $\pm 1 \text{ hPa}$ (@ 10..30 °C, ab Firmware 1.3)<br>Max.: $\pm 1,25 \% \text{ FSS}$ |
| Druckanschluss         | ein Schlauchanschluss, durch G1/8 Universalport wechselbar,<br><b>ein Druckausgleich, Porenweite 40 - 50 <math>\mu\text{m}</math> , G1/8</b>  |
| Zusätzliche Funktionen | <b>ModL</b> : Tara-Funktion<br><b>AVr</b> : Mittelung über 2 s / 5 s / 10 s<br><b>KEY bAG</b> : Tasten unter 700 hPa deaktiviert              |

Further specifications please refer to G 1111 standard version