

Supplementary Instructions

for vacuum-variants ECO 240-1-xx-VAC

Restriction of standard ECO 240-1 in vacuum use

The standard ECO 240-1 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 ECO 240-1-VAC available, which are described here.

ECO 240-1-xx-VAC: With pressure compensating element

The ECO 240-1-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.

The instrument variant ECO 240-x-VAC can substitute fully encapsulated instruments.

Pore width of pressure-compensating element:
40 - 50 μm (equals art. GDZ-34).

The buttons can be deactivated automatically when the vacuum is applied, if Mode "Key bag" is selected:

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***

ModE KEY	Set key mode
Std	Normal mode - no locking of the keys in case of negative pressure
bag	keystroke is suppressed if the value falls below the limit of 700 hPa, for bag evacuation

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

Display	Meaning	Possible Causes	Remedy
KEY	Device was switched on at too low pressure	Pressure below limit value when switching on	Wait for shutdown (30s)
bag			Call up the adjustment menu
Err			Set ModE to Std

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

ECO 240-1-xx-VAC

Accuracy	Typ.: $\pm 2 \text{ hPa}$ (@ T: 5..30 °C) @ 0...20 hPa: $\pm 1 \text{ hPa}$ (@ T: 10..30 °C) Max.: $\pm 1.25 \% \text{ FSS}$
Pressure connection	1 hose connection, interchangeable with G1/8 universal ports, 1 pressure-compensating element, pore width 40 - 50 μm , G1/8
Activatable special functions	Null: tare-function AVr: averaging over 2 s / 5 s / 10 s KEY bag: disable buttons below 700 hPa

Further specifications please refer to ECO 240-1 standard version