

Dansensor® MAP Mix Focus

A RELIABLE WAY TO MIX GAS



Benefits

- Reliable outlet gas flow supply for mid-capacity packaging operations
- Stable and accurate mixing, regardless of inlet pressures
- Clear on-screen overview of gas mix and gas flush parameters in real time
- Simple and intuitive setup and operation
- Low internal pressure loss from gas inlet to outlet
- For use with all types of MAP packaging machines in the food industry

Mid-capacity gas mixer for modified atmosphere packaging lines (MAP)

The Dansensor® MAP Mix Focus uses an electronic mixing principle to accurately and reliably mix food-grade MAP gases. Monitor the gas mixing process in real time with a coherent on-screen overview that includes precise information about the current gas flow, total gas consumption, and actual MAP gas mix.

With the Dansensor MAP Mix Focus, specific gas mixes and corresponding alarm levels can be easily entered on the intuitive touchscreen. Three configurations can be saved on the instrument to avoid errors when adjusting the gas mix for different products. The mixer easily works with both gas generators and bottled gas that deliver different or varying inlet pressures. It delivers a stable gas flow and accurate gas mix every time.

The Dansensor MAP Mix Focus features a mid-capacity flow rate, suitable for packaging machines with both direct gas feed and buffer tanks.

Features

- Models for 2 or 3 gas mixing
- 3 customizable mixture presets
- Intuitive touch screen display
- Real time display of actual gas mix, inlet and outlet pressures and flow rate
- Sensors warn when supply gas levels low (audio/visual)
- Wide inlet pressure range (2-10 bar)
- Dynamic mass flow controllers regulate the flow of gases for accurate automatic mixing

HOW DOES IT WORK?

- 1:** Power on the Dansensor MAP Mix Focus. After the self-diagnostic program is finished, the main screen will show.
- 2:** Use the intuitive touchscreen to select a mixing program from the product list. Three different mixing programs (products) can be stored on the instrument.
- 3:** Press the "Start" button. The instrument delivers a stable, accurate gas mixture and clearly displays vital, real time information about actual gas inlet and outlet pressures, gas mixture and gas flow.
- 4:** In case of any irregularities or low gas supply, the mixer alerts the operator with an audible and/or visual alarm indicator.





IP45 accessory kit for improved water protection

Optional buffer tank 15 liter



Technical Specifications

General standard features	
Mixer configuration	2-gas or 3-gas models available with 5" touch screen display
Connections	24 VDC I/O logic for start/stop and alarms, for machine interaction
Power supply	103-132 / 207-264 VAC (auto ranging), 47-63 Hz
Dimensions & Weight	190 x 230 x 375 mm (HxWxD); 12 kg (2-gas) / 14 kg (3-gas)
Compliances	 
Mixer parameters	
Gas media	Any mix of dry gases O ₂ , CO ₂ , N ₂ , and clean air (0-50°C gas temperature)
Gas inlet pressure	2-10 bar (reduced specifications under 4 bar)
Pressure drop	Example: 1 bar at 10 bar input pressure
Gas flow per gas string	6-250 L/min
Output gas flow	Maximum 500 L/min (2-gas) and 750 l/min (3-gas) depending on mixture setting
Mixer settings	Range: 0% (off), 0.5% - 100%
Mixer accuracy	± 2% absolute in flow ranges above 50 L/min total output flow
Operating modes	Buffer or flow configuration, selectable in software and by installation
Flow measuring	Total and daily consumption
Accessories (optional)	
Protection kit	IP45 protection (NEMA 3S) frames and covers for front and back
Buffer tank	15 liter, stainless steel, approved up to 12 bar
Mix	
Typical mix (2-gas mixer)	N ₂ 70% + CO ₂ 30%, flow range: 20-350 L/min
Typical mix (3-gas mixer)	N ₂ 70% + CO ₂ 20% + O ₂ 10%, flow range: 60-350 L/min
Typical mix (2 gases on 3-gas mixer)	N ₂ 70% + CO ₂ 30%, flow range: 20-710 L/min

Specifications subject to change without notice.