

# Cerabar PMP63B & Deltabar PMD63B

For measurement of hydrostatic level and pressure in liquids and gases





## At a glance: Cerabar PMP63B and Deltabar PMD63B

Cerabar PMP63B and Deltabar PMD63B are pressure transmitters for precise measurement of hydrostatic level and pressure in liquids and gases. They are primarily used in the Food & Beverage and Life Sciences industries, where reliable performance under demanding process conditions is essential.

Both devices are available in various configurations, including hygienic versions. Featuring advanced sensor technology and comprehensive digital communication capabilities, the devices integrate seamlessly into diverse process environments and modern network architectures.



**Cerabar PMP63B** is a pressure transmitter designed for hydrostatic level, absolute and gauge pressure measurement. It offers two sensor options:

- The metallic measuring cell with **Contite Technology** provides exceptional protection against moisture and condensate, making it ideal for cold process conditions.
- The alternate option features a diaphragm seal equipped with the proven **TempC Membrane**, which significantly reduces the influence of temperature fluctuations.

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**Deltabar PMD63B** is a differential pressure transmitter for hydrostatic level and differential pressure measurement. It is available with diaphragm seals on one or both sides, and capillaries further enhance its adaptability across a wide range of applications. The integrated **TempC Membrane** ensures reliable measurements by effectively compensating for temperature fluctuations.



# Benefits at a glance

Cerabar PMP63B and Deltabar PMD63B offer high accuracy, intuitive operation and industry compliance.

Compliant with industry standards

Developed according to IEC 61508 for use in SIL2/3 safety applications and certified with international explosion protection

Device verification and process monitoring possible with Heartbeat Technology

Easy commissioning with guided setup sequences on device display, via web server or SmartBlue app

High measurement reliability and operational safety thanks to TempC Membrane

Flexible system integration via PROFINET over Ethernet-APL, PROFIBUS PA and HART

Sensor with advanced condensation resistance (Contite Technology)



## Industry focus

Developed mainly for Food & Beverage and Life Sciences industries, Cerabar PMP63B and Deltabar PMD63B combine hygienic design with reliable performance.



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## Food & Beverage

Reliable measurement in  
hygienic environments

Cerabar PMP63B and Deltabar PMD63B ensure hygienic compliance and reliable performance in beverage production and food processing, even under temperature and pressure fluctuations, humidity and condensation.



- **Hydrostatic level measurement in cold process and storage tanks**  
Contite Technology ensures stable performance in environments with high humidity and frequent condensation.
- **Pressure monitoring of process piping during product transfer (e.g. of beer or milk)**  
The robust sensor design with Contite Technology withstands pressure shocks, vibration and temperature-related condensation.

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Reliable measurement in  
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Cerabar PMP63B and Deltabar PMD63B ensure hygienic compliance and reliable performance in beverage production and food processing, even under temperature and pressure fluctuations, humidity and condensation.



- **Hydrostatic level measurement in pressurized process tanks**  
Deltabar PMD63B provides precise differential pressure measurement under high static pressure and withstands sterilization in place (SIP) and cleaning in place (CIP) at high temperatures.
- **Filter monitoring and differential pressure measurement**  
Deltabar PMD63B enables early detection of filter blockages to maintain product quality and process efficiency, even under high static pressure and small differential pressure.



## Life Sciences

### Robust design for aseptic environments

Cerabar PMP63B and Deltabar PMD63B provide reliable hydrostatic level and pressure measurement in Life Sciences applications. Designed to withstand sudden temperature changes and demanding process conditions, the devices ensure hygienic compliance and process safety.



- **Hydrostatic level and head pressure measurement in pressurized tanks used in upstream cell culture and fermentation processes such as bioreactors and media preparation tanks**  
The sensors withstand sterilization in place (SIP) and cleaning in place (CIP) and the resulting temperature shocks, including steam entering cold vessels or chilled water in heated tanks.
- **Pressure monitoring of clean steam pipes**  
The robust, flush-mounted sensor design ensures reliable operation under continuous exposure to high pressure and high temperatures.



# Life Sciences

## Robust design for aseptic environments

Cerabar PMP63B and Deltabar PMD63B provide reliable hydrostatic level and pressure measurement in Life Sciences applications. Designed to withstand sudden temperature changes and demanding process conditions, the devices ensure hygienic compliance and process safety.



- **Hydrostatic level measurement in pressurized process tanks**  
Deltabar PMD63B provides precise measurement under high static pressure and minimal differential pressure, while remaining stable during sterilization in place (SIP) and cleaning in place (CIP).
- **Filter monitoring and differential pressure measurement in filtration systems**  
Deltabar PMD63B enables early detection of pressure drops and blockages, even when differential pressure is low compared to static load.



# Product overview

With intuitive operation and smart diagnostics, Cerabar PMP63B and Deltabar PMD63B ensure seamless integration and reliable processes.



## Display

Backlit display with optical push buttons

## Operation

Easy and guided commissioning on device display, via web server or SmartBlue app

## Housing materials

Available with aluminium or stainless-steel housing

## Protection

- Developed in accordance with IEC 61508 for use in SIL2/3 safety applications
- Safety-relevant settings can be verified via checksum (CRC) to detect unauthorized changes
- Heartbeat Technology and Verification

## Communication

4...20mA (HART), PROFIBUS PA, PROFINET over Ethernet-APL

## Approvals

- Compliance to Food & Beverage (FCM, EHEDG, 3-A, FDA, EG1935, GB3806), Life Sciences (ASME BPE, USP Class Vi) and European environmental standards
- International explosion protection certificates (Ex i T6, Ex ia, Ex ec, Ex d, Ex ia IIC, Ex t)

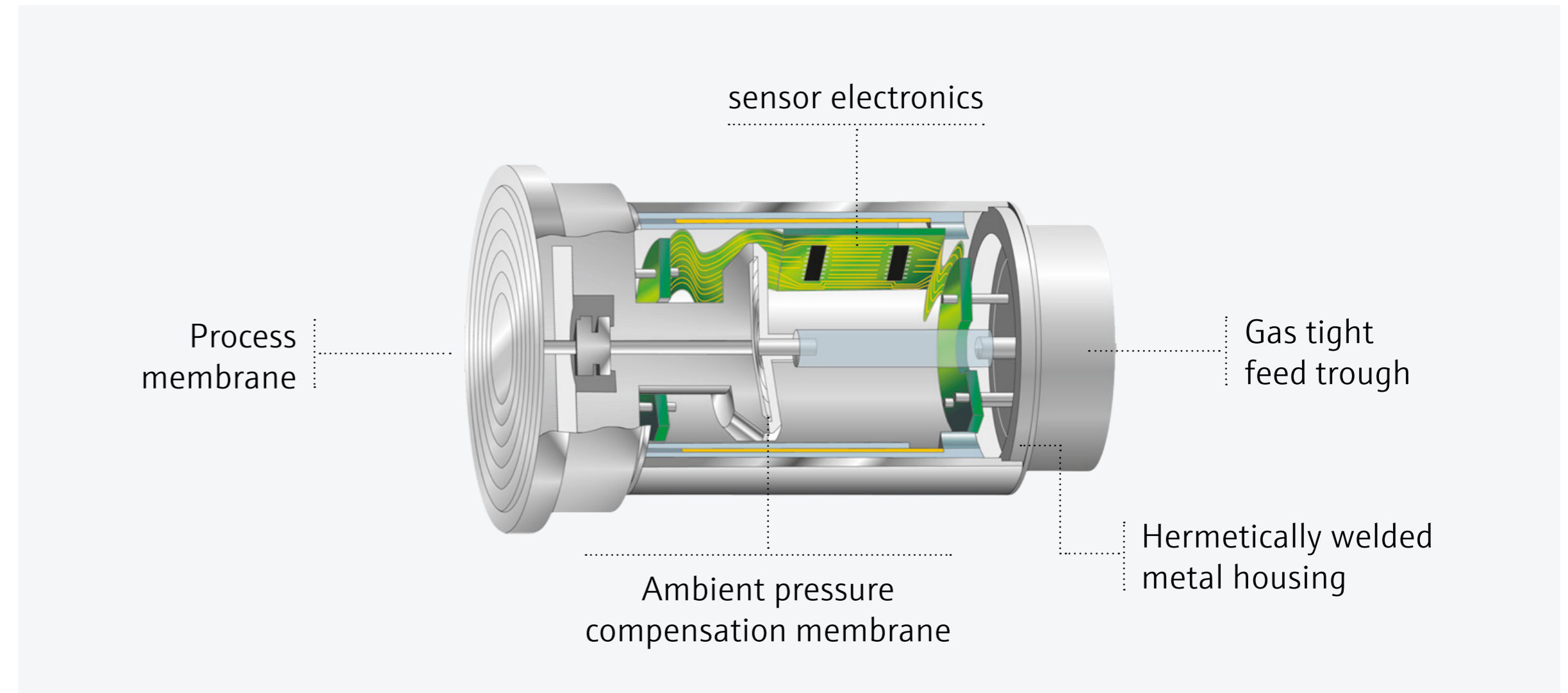
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## About Contite Technology

Reliable hydrostatic level and pressure measurement in cold environments with condensation

Conventional sensors with metallic or ceramic measuring cell are sensitive to moisture ingress, especially in relative pressure applications that require atmospheric compensation paths. These paths can allow humidity to penetrate the sensor, causing drift or failure. GORE-TEX® filters offer only limited protection, as moisture can gradually diffuse through and accumulate inside the sensor.

Cerabar PMP63B with Contite Technology eliminates this risk by hermetically sealing the compensation path with an ambient pressure compensation membrane. This fully encapsulated design prevents moisture ingress and ensures reliable operation under condensation.



### Benefits of Contite Technology:

- Effective protection against humidity
- High linearity for precise measurements
- Resistant to temperature shocks
- Outstanding long-term stability

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