

Endress+Hauser

New Cerabar S Pressure Transmitter

a new safe concept for gauge / absolute pressure measurement

The advantages of the latest version of Endress+Hauser's **Cerabar S** pressure transmitter make it the superior choice for measuring absolute or gauge pressure of gases, steams or liquids in all process industries.

Exceptionally user-friendly, **Cerabar S** now measures up to 700 bar, operates in direct contact with the process at temperatures up to 350°C and comes with an extensive range of process connections for various applications.



PMC 71 with Ceraphire® ceramic sensor
-40 °C to 150 °C, 100 mbar to 40 bar

Low-pressure applications

For low-pressure applications (vacuum to 40 bar), the **Cerabar S** incorporates the proven ceramic cell - with Ceraphire® cell now fitted as standard.

Thanks to its 99.9% A1203 purity, the Ceraphire® ceramic sensor is more resistant to mechanical abrasion and damage and more chemically inert than the original. The material is up to 30 times thicker than metal membranes, oil-free and can be used in applications up to 150°C.

Applications to 700 bar & 350°C

For high-pressure applications up to 700 bar, the new **Cerabar S** incorporates a mono-silicone cell with stainless steel diaphragm.

This version tolerates higher temperatures, up to 280°C, without the need for chemical seals. In the absence of fill fluid, the measured value is not affected by temperature changes. For applications up to 350°C, chemical seals are available. Accuracy is now 0.05% of the measured variable, and stability is 0.05% of the upper range limit/year.

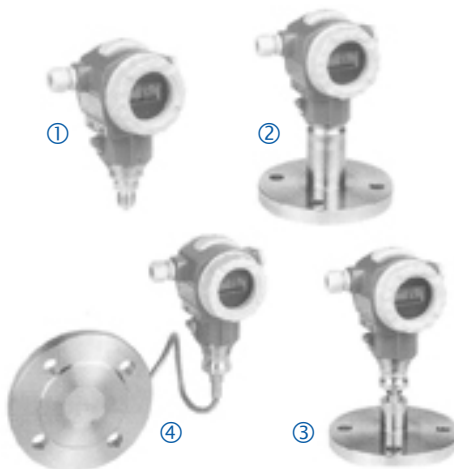
Unique data storage feature

New **Cerabar S** offers unique data storage and transfer capabilities. It incorporates a HistoROM®/M-DAT - a chip that stores a wide range of data including:

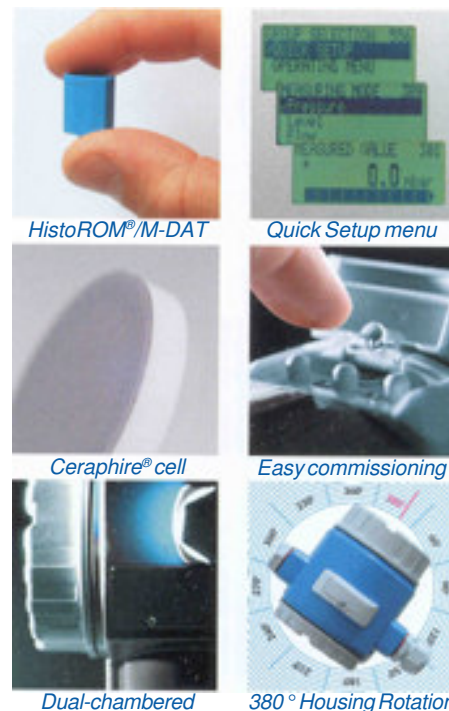
- last 25 hours of process variables, temperature and pressure
- configuration settings of the transmitter (uploaded and downloaded as required)
- event recording (with electronic signatures)

The HistoROM®/M-DAT enables speedy trouble-shooting and retrospective analysis in the event of a problem. It also allows the device to be moved to another process together with relevant calibration data.

Programming is easy using a well-proven E+H software tool or alternatively via the 3 buttons in the housing. The buttons provide contactless connections that are unaffected by traditional corrosion / jamming / weathering problems.



- 1 PMP 71. Completely welded design
-40 °C to 125 °C, 100 mbar to 700 bar
- 2 PMP 72. High temperatures without seal
Up to 280 °C, 100 mbar to 40 bar
- 3 PMP 75. High temperatures with seal
Up to 350 °C, 100 mbar to 700 bar
- 4 PMP 75. With capillary and seal
Up to 350 °C, 100 mbar to 700 bar



High safety standards

The robust housing of **Cerabar S** has been designed to satisfy the recent safety demands for process measuring devices, including SIL2 and PED requirements and all initially accepted Ex ratings, including IEC Ex.

Two housing versions are available:

- die-cast, powder-coated aluminium for chemically aggressive environments such as mining and power generation
- stainless steel for food applications and highly aggressive environments (eg sea air/chlorine atmospheres).

Both versions feature secondary containment, in which the sensor is mechanically separated from the electronics compartment in order to eliminate the possibility of harm to the operators in the event of a process accident.

The new features of **Cerabar S** make it the safest and highest performing pressure measurement transmitter on the market. With its SIL, PED and Ex approvals, data storage capabilities and extended operating and measurement parameters, it's the complete solution for all situations.

For more information on Cerabar S, please circle Enquiry No:

1201

To discuss your applications please contact Howard Berry or Chris Gailer