

接受 特殊定制

自主研发, 100%国产化



国家发明专利



实用新型专利

- **高精度**
非线性: $\pm 0.10\%F.S.$
迟滞: $\pm 0.02\%F.S.$ 重复性: $\pm 0.02\%F.S.$
- **高稳定性、高可靠性**
长期稳定性: $\leq 0.05\%F.S./Y$
- **低温漂、低时漂**
热零点漂移(温补后): $0.0025\%F.S./^{\circ}C$
热满量程漂移(温补后): $0.0025\%F.S./^{\circ}C$
- **宽温区**
工作温度: $-65^{\circ}C \sim 175^{\circ}C$
- **高爆破**
破坏压力: $\geq 20X$ (最大不超过1100MPa)

《《 绝压型 密封表压型

《《 表压型

MCS(Metals Coalesce System)多金属熔合系统是中星测控潜心研发近10年的创新高端压力传感器技术, 拥有完全自主知识产权和技术专利, 自主可控、国际一流。

产品参数

Product Parameters

量程范围: 0~0.5...50MPa
 过载压力: 2X
 破坏压力: $\geq 20X$ ($\leq 1100MPa$)
 工作电压: 2~10VDC
 输出灵敏度: 1.0~2.0mV/V
 零点输出: $\leq \pm 0.5mV/V$
 工作温度: $-65^{\circ}C \sim 175^{\circ}C$
 补偿温度: $-50^{\circ}C \sim 150^{\circ}C$

非线性: $\pm 0.1\%F.S.$
 迟滞: $\pm 0.02\%F.S.$
 重复性: $\pm 0.02\%F.S.$
 热零点漂移(温补后): $0.0025\%F.S./^{\circ}C$
 热满量程漂移(温补后): $0.0025\%F.S./^{\circ}C$
 长期稳定性: $\leq 0.05\%F.S./Y$
 绝缘电阻: $\geq 2G\Omega@250V$
 电气强度: $\geq 1000VAC$

输入/输出阻抗: $>1600\Omega$
 响应频率: 1kHz
 压力循环寿命: 10^8 次 ($25^{\circ}C$)
 弹性材料: 17-4PH不锈钢
 适用介质: 与17-4PH兼容的流体
 (包括粘稠物)
 尺寸: a) 表压型: $\varnothing 19 \times H8$
 b) 绝压型/密封表压型: $\varnothing 19 \times H13$



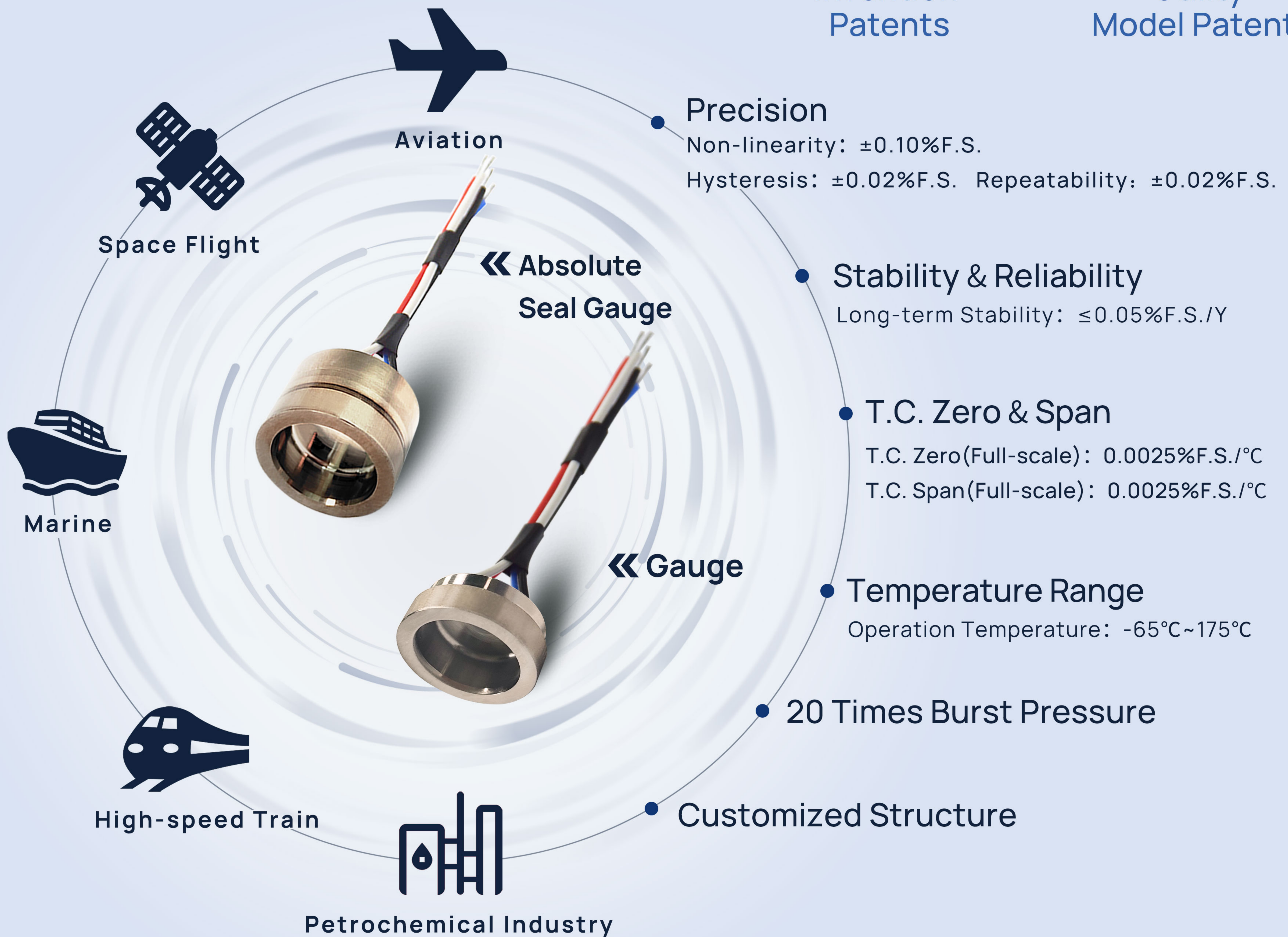
MCS19 High-end Industrial Pressure Sensor



Invention Patents



Utility Model Patents



MCS (Metal Coalesce System) represents a world-class innovative high-end pressure sensor technology originally created by Chinastar M&C. Chinastar owns the complete independent intellectual property rights and knowhow technology.

Product Parameters

Range: 0~0.5...50MPa
 Overload Pressure: 2X
 Burst Pressure: $\geq 20X$ ($\leq 1100MPa$)
 Operating Voltage: 2~10VDC
 Output Sensitivity: 1.0~2.0mV/V
 Zero Output: $\leq \pm 0.5mV/V$
 Operation Temperature: $-65^{\circ}C \sim 175^{\circ}C$
 Compensation Temperature: $-50^{\circ}C \sim 150^{\circ}C$

Non-linearity: $\pm 0.1\%F.S.$
 Hysteresis: $\pm 0.02\%F.S.$
 Repeatability: $\pm 0.02\%F.S.$
 T.C. Zero (Full-scale): $0.0025\%F.S./^{\circ}C$
 T.C. Span (Full-scale): $0.0025\%F.S./^{\circ}C$
 Long-term Stability: $\leq 0.05\%F.S./Y$
 Insulation Resistance: $\geq 2G\Omega @ 250V$
 Electric Strength: $\geq 1000VAC$

Input/Output Impedance: $> 1600\Omega$
 Response Frequency: 1kHz
 Pressure Cycle Life: 10^8 Cycles ($25^{\circ}C$)
 Elastic Material: 17-4PH Stainless Steel
 Applicable Media: Fluids Compatible with 17-4PH
 Dimensions: a) Gauge: $\varnothing 19 \times H8$
 b) Absolute/Sealed Gauge: $\varnothing 19 \times H13$

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