



满足您最不妥协的工程标准

Engineered to Uncompromising Standards . Yours

产品手册 Product Catalog

苏州思迈尔电子设备有限公司
Suzhou CMR Electronic Devices Co., Ltd

CONTENTS 目录

关于 CMR About US

CMR 简介	CMR Introduction	01
CMR 中国	CMR China	02
企业资质	Company Qualification	03
荣誉认证	Honors and Certificates	04
CMR 愿景	CMR Vision	05

产品选型 Product Selection

流体温度传感器 Fluids Temperature Sensor

MBT2	07
MBT19	08
MBT32	09
MBT1UG	10
MPT108	11

气体温度传感器 Gaseous Fluid Temperature Sensor

MD1U	12
MD11	13
MD2RU	14
MD43	15
MD43.3	16
MC29.2	17
MC31	18
MT.S	19
EGT78	20



EGT80.....	21
EGT.5.....	22
MD20.....	23
MD20.2	24

轴承温度传感器 Bearing Temperature Sensor

MP12.6.....	25
MP46.1	26
CTHP	27

液化天然气温度传感器 Liquid Nature Gas Temperature Sensor

TCM2.1	28
TCM.6.....	29

压力变送器 Pressure Transmitters

MPC3000/3050	30
MPC5100/5150	32

定制化布线系统

Customized Wiring Systems

刚性和柔性预接线解决方案	Rigid and Flexible Pre-wired Wiring Solutions.....	35
刚性方管布线系统	Rigid Pipe Wiring System	36
柔线布线系统	Flexible Wiring System.....	37

控制柜

Control Panel

控制柜	Control Panel.....	39
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CMR 简介》

CMR Introduction

CMR 集团于 1959 年在法国马赛成立，是工业仪器仪表、工业自动化及电气工程领域的知名企业。公司活跃于工业、能源、航海及铁路等领域。是工业应用，航海，矿业及海上平台领域的全球化合作商。95% 的年营业额来自国际市场，全球 12 个业务部门拥有 1000 名员工。

Founded in Marseille, France, in 1959, CMR Group is a recognized player in instrumentation, automation and electrical engineering. The company is active in the fields of industry, energy, marine and rail. A global engineering partner for industrial applications, marine, mining and offshore. 95% of annual turnover is generated internationally with 1,000 employees in 12 business units worldwide.



CMR 为客户量身定制整体解决方案， 以帮助客户应对最复杂的挑战

CMR develops tailor-made, turnkey solutions to address the most complex challenges faced by its clients.



发动机 | ENGINES
发动机仪表和通讯系统



铁路 | RAIL
用于铁路线束和连接箱



工业自动化 | AUTOMATION
设备线束连接及控制柜



新能源 | NEW ENERGY
风能，天然气，太阳能，海流能，波浪能等



海洋船舶及离岸 | MARINE AND OFFSHORE
自动化系统和配电板控制



核能 | NUCLEAR
核电站的测量和自动化仪器

2007年，苏州思迈尔电子设备有限公司（Suzhou CMR）成立。主要投入对传感器、线束及控制柜的研发及生产。近年来业务发展迅速拥有传感器、线束、控制柜等多条生产线；同时设立实验室，具备专业检测设备，为产品提供各类测试，如震动测试、绝缘测试、高低温测试、湿度测试及线束导通测试等。凭借卓越的软硬件设施，向国内外用户提供最具价值的产品和方案，得到了国内外等众多知名企业的高度肯定，并建立了长久良好合作关系。

CMR 中国》

CMR China



Suzhou CMR was founded in 2007. Mainly invested in the research and development and production of sensors, wiring harnesses and control cabinets. In recent years, the business has developed rapidly, with sensors, wiring harnesses, control cabinets and other production lines; At the same time, we set up a laboratory with professional testing equipment to provide various kinds of tests for products, such as vibration test, insulation test, high and low temperature test, humidity test and wire harness conduction test. With excellent hardware and software facilities, we provide the most valuable products and solutions to domestic and foreign users, which has been highly recognized by well-known enterprises, and established a long-term good cooperative relationship.

企业资质

Company Qualification

苏州思迈尔电子设备有限公司设计和制造流程得到行业领先的质量和效率实践的支持，我们对质量的承诺体现在我们实现了世界上最受尊敬的质量，工艺，环境，健康和安全管理标准，如 ISO45001, ISO14001, ISO9001 和 IATF16949。我们的产品还通过了电气，和危险区域标准认证 如：ATEX, CE, CSA, IEC, K3（核电），NEMA, UL 和 ITAR 等。

Suzhou CMR design and manufacturing processes are supported by industry-leading quality and efficiency practices. Our commitment to quality is reflected in our achievement of the world's most respected quality, process, environmental, health, and safety certification standards, such as ISO 45001, ISO 14001, ISO9001, and IATF16949. Our products have also passed electrical and hazardous area standard certifications such as ATEX, CE, CSA, IEC, K3 (nuclear), NEMA, UL, and ITAR.

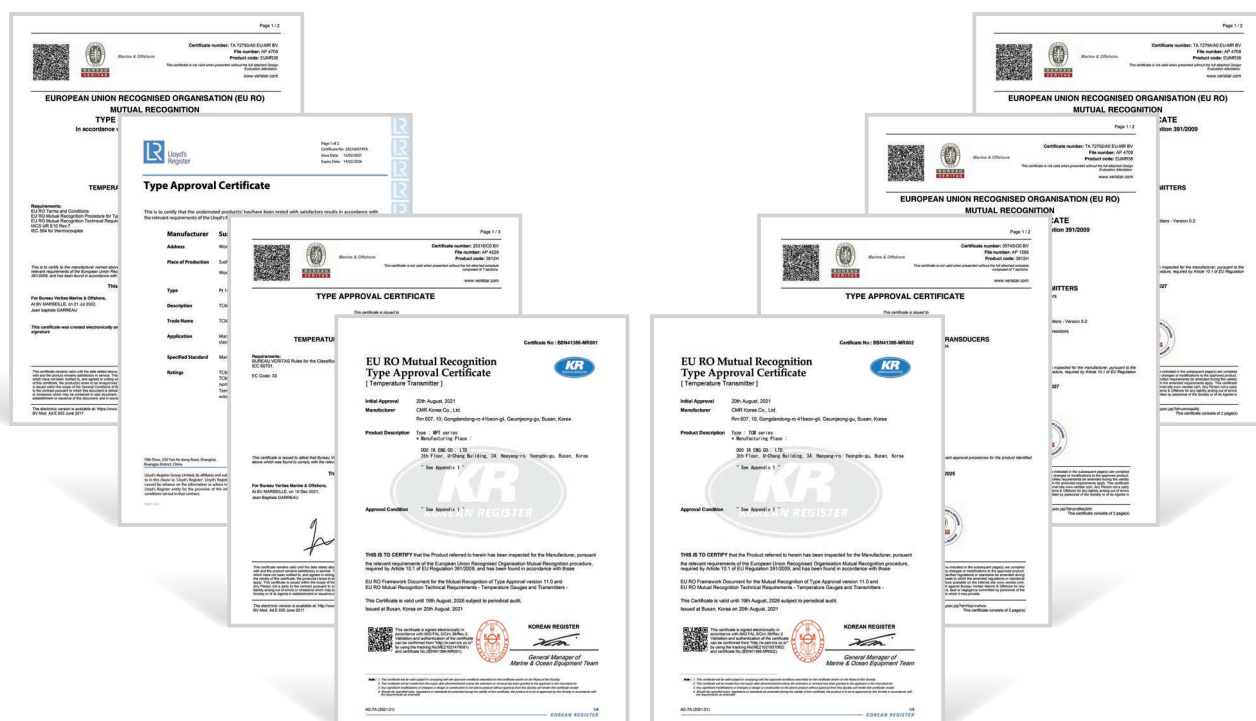
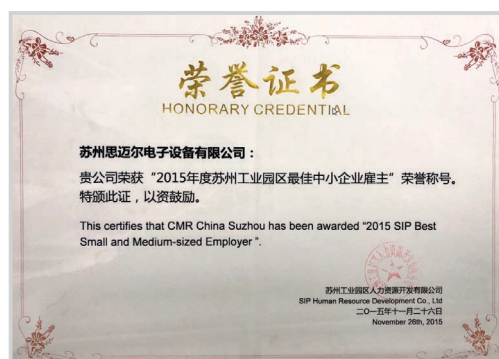


荣誉认证 >>

Honors and Certificates

苏州 CMR 始终坚持技术领先、质量第一的理念，严格遵守生产规范，建立了完整的原材料进厂检验、生产质量全过程管理体系，售前、售后全方位技术支持服务体系。传感器、线束及控制系统通过 GL、CS、DNV 等多家船级社认证。

Suzhou CMR always adhere to the concept of leading technology and quality first, strictly abide by the production standards, established a complete raw material inspection, production quality management system, pre-sales, after-sales comprehensive technical support service system. The sensor, wiring harness and control system are certified by many classification societies such as GL, CS and DNV.



CMR 愿景 >>

CMR Vision

我们秉承诚信、敏捷性、领导、客户导向、卓越运营、团队精神的企业文化，以技术领先、管理高效的身份为客户解决一切难题，用具有竞争力的高质量服务赢得市场。

We uphold Integrity, Agility, Leadership, Customer drive, Operational excellence, and Team spirit corporate culture to solve all problems for customers with leading technology and efficient management, Win the market with competitive high-quality services.





诚信
INTEGRITY



敏捷性
AGILITY



领导力
LEADERSHIP



客户导向
CUSTOMER DRIVE



卓越运营
OPERATIONAL EXCELLENCE



团队精神
TEAM SPIRIT

温度与压力传感器

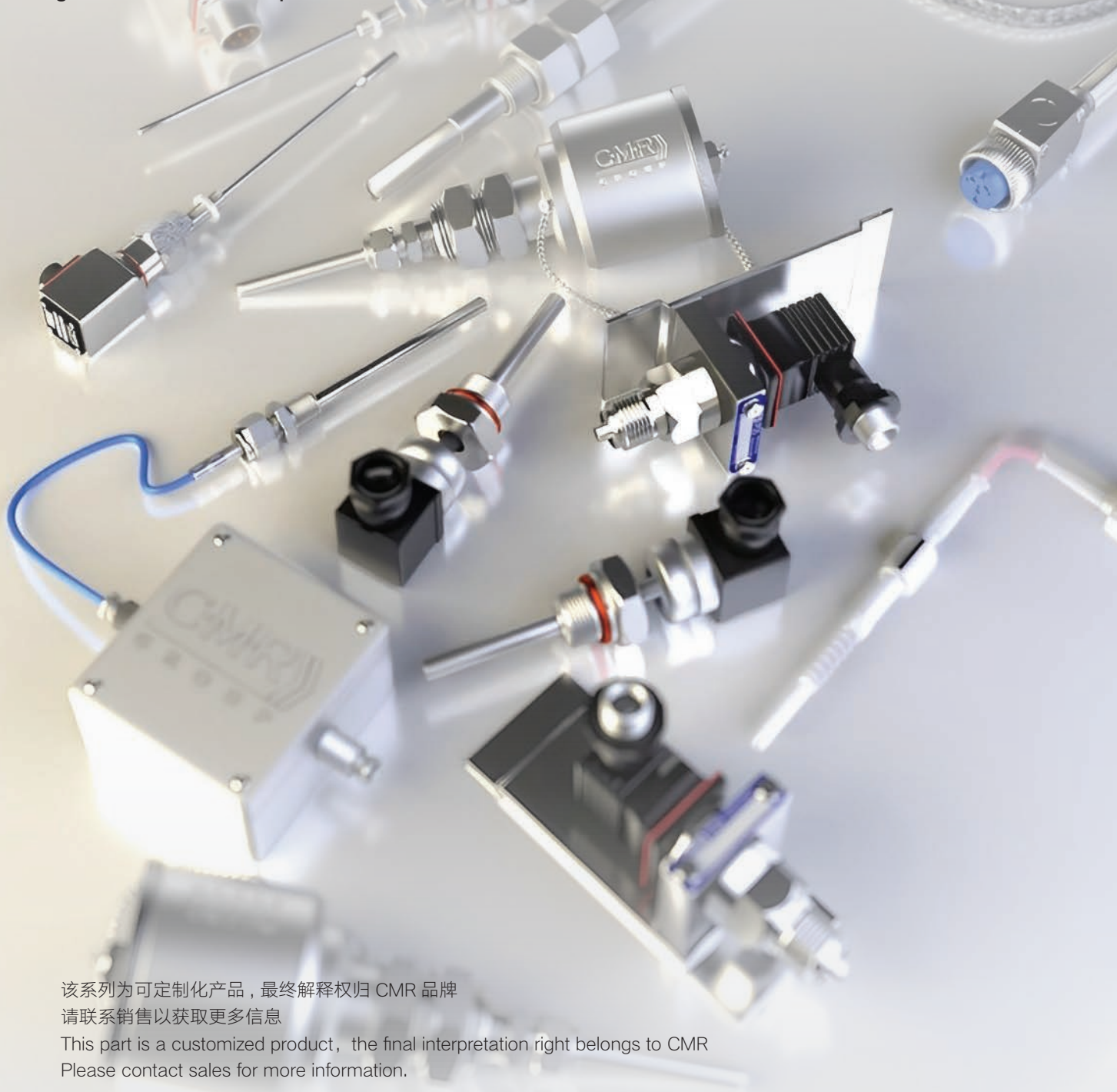
Temperature and Pressure Sensor

该系列传感器分别适用于：水、油、各类气体、液化天然气以及轴承等

广泛应用于工业自动化、海洋船舶、离岸、铁路及石油、化工、冶金、发电等过程控制领域

This part of sensors are suitable for: water, oil, various gaseous, liquefied natural gas, and bearing, etc.

Application in: automation, marine, offshore, rail ,petroleum, chemical, metallurgical, power generation and other process control fields



该系列为可定制化产品，最终解释权归 CMR 品牌

请联系销售以获取更多信息

This part is a customized product, the final interpretation right belongs to CMR

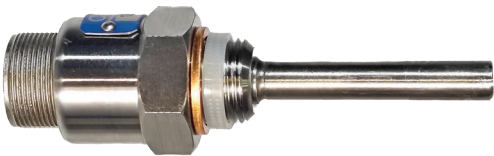
Please contact sales for more information.

MBT2 流体温度传感器

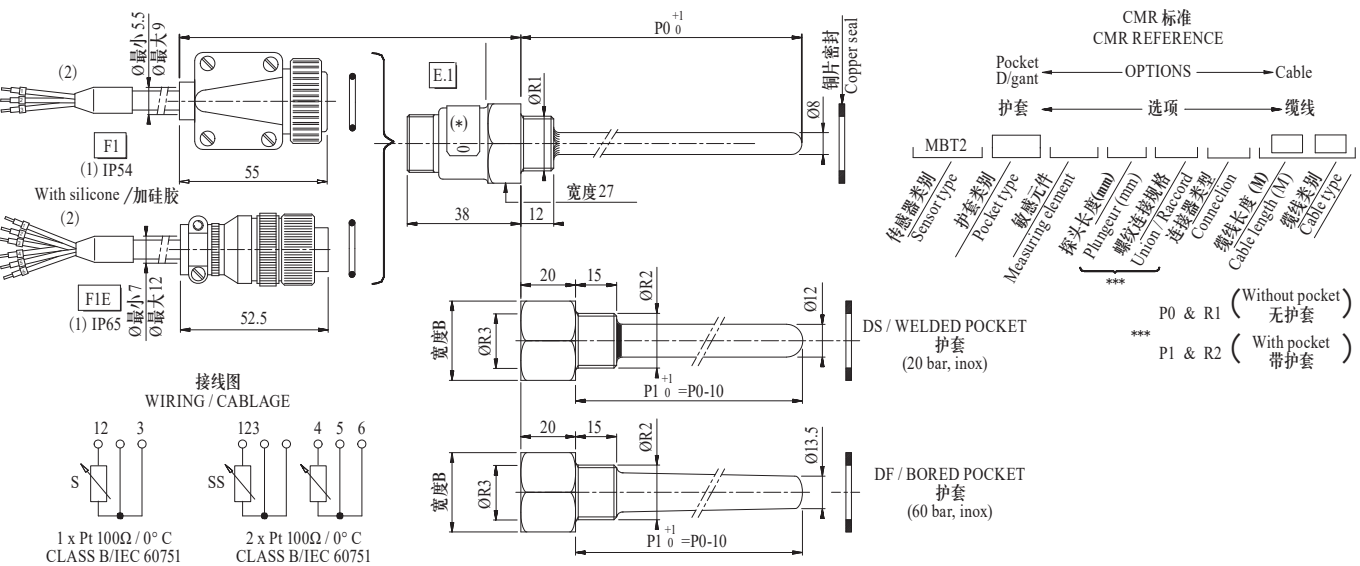
Fluids Temperature Sensor

RTD/Pt100 (Pt1000) 工业温度传感器。
适用于各种流体的温度测量，例如水温、油温等。

RTD/Pt100 (Pt1000) Industrial Temperature Sensor.
It is suitable for temperature measurement of various fluids, For example: water, oil fuel, etc.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

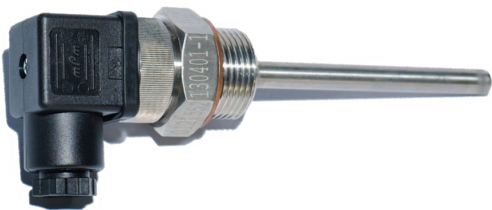
热敏感元件 Measuring Element	PT100	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	1/4NPT,M12×1.75, M14×1.5 或指定 1/4NPT,M12×1.75, M14×1.5 or required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	F1,F1E,E.1
最高测量值 Measurement Range Max	220℃	其他可选项 Other Options	NA
精度 Accuracy	IEC60751	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MBT2 S 70 M18 F1E

MBT19 流体温度传感器

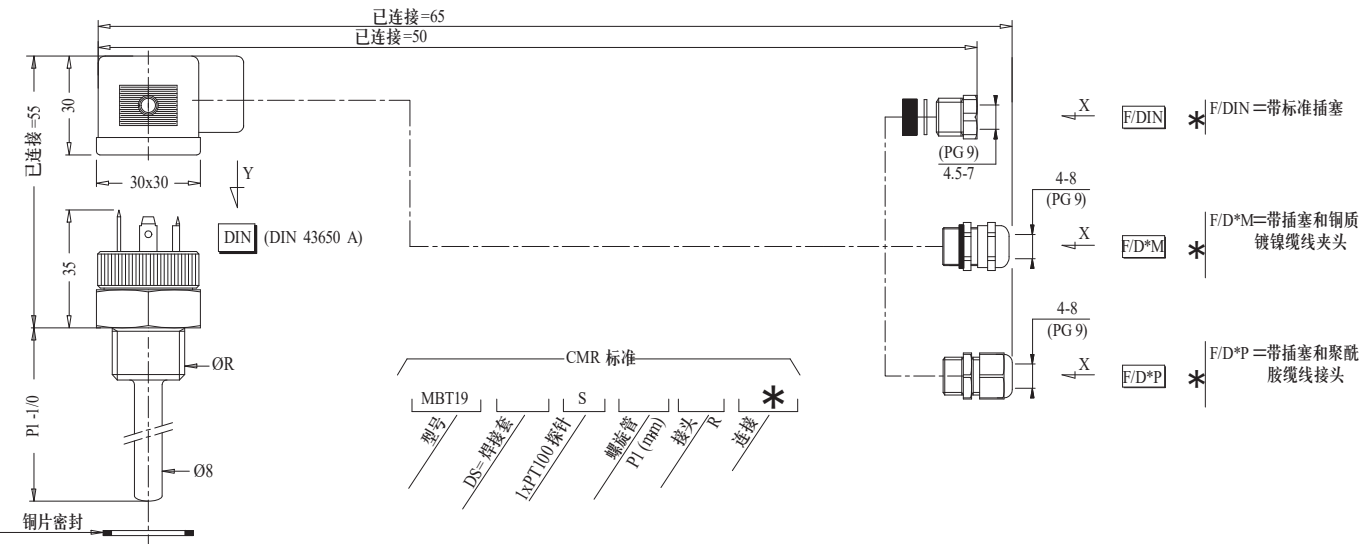
Fluids Temperature Sensor

探头部位为不锈钢材质，连接插头符合 DIN 43650A 标准，可在腐蚀性环境中工作。适用于各种流体的温度测量，尤其适用于 200℃ 及以下温度，例如：冷却水、润滑油温度。具有极高的抗振和抗冲击性能。

The probe is made of stainless steel, and the connection plug is DIN 43650A, can work in corrosive environments. It is suitable for temperature measurement of various fluids, especially for temperature of 200 °C and below. For example: cooling water , lubricating oil temperature. With extremely high vibration and impact resistance.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

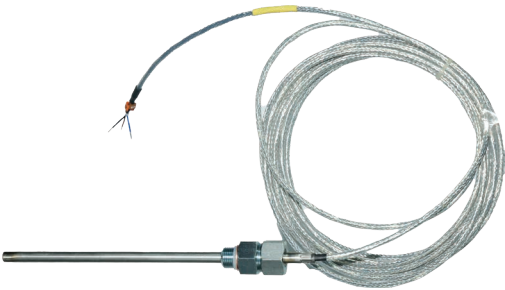
热敏敏感元件 Measuring Element	PT100/PT1000	防护等级 IP	IP65
绝缘性能 Insulation	> 100MΩ/500Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-50℃	连接螺纹规格 Connection Thread	G1/2, G3/4, M16×1.5 或指定 G1/2, G3/4, M16×1.5or required
最高测量值 Measurement Range Max	200℃	电信号连接器 Electrical Connection	IN43650 360°, 镀金连接端子 DIN43650 360°, gold plated terminals
精度 Accuracy	UTEC 46 202	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MBT19 DS S 50 3/4BSPP F/D_P

MBT32 流体温度传感器

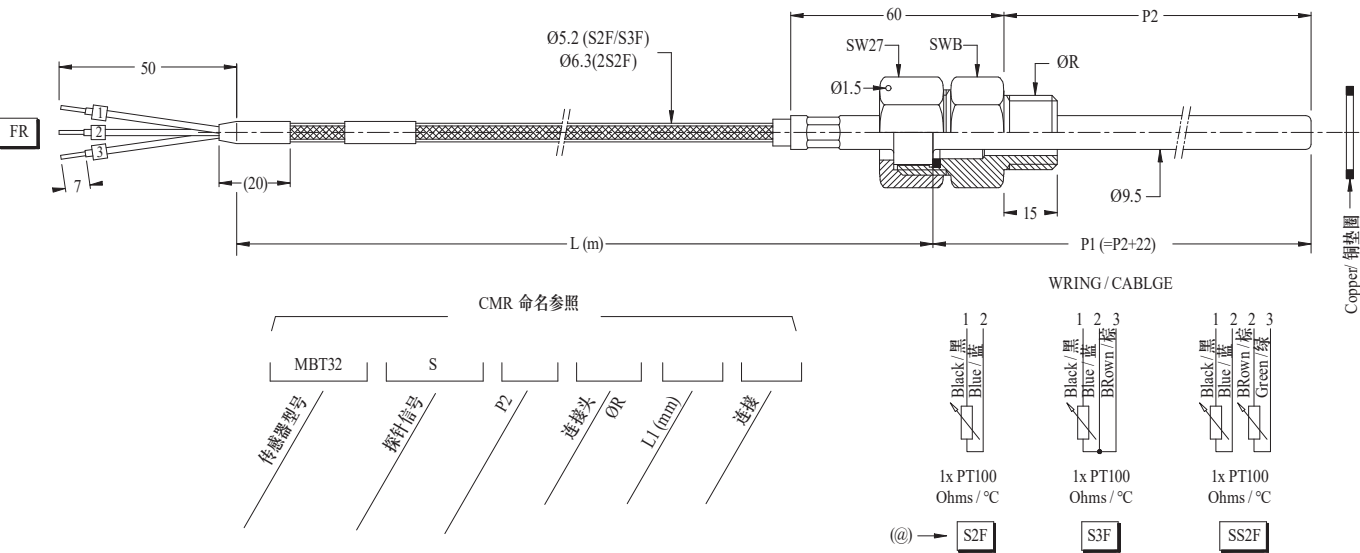
Fluids Temperature Sensor

探头部位为不锈钢材质，可在腐蚀性环境中工作。适用于各种流体的温度测量，尤其适用于 150℃及以下温度，例如：冷却水、润滑油温度。具有极高的抗振和抗冲击性能。

The probe part is made of stainless steel, can work in corrosive environment. It is suitable for temperature measurement of various fluids, especially for temperatures of 150℃ and below. For example: cooling water, lubricating oil temperature. with extremely high vibration and impact resistance.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏元件 Measuring Element	PT100	防护等级 IP	IP65
绝缘性能 Insulation	> 100MΩ/500Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-50℃	连接螺纹规格 Connection Thread	G1/4
最高测量值 Measurement Range Max	150℃	电信号连接器 Electrical Connection	FR
精度 Accuracy	IEC60751	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MBT32 2S2F 200 M18 7 FR

MBT1UG 流体温度传感器

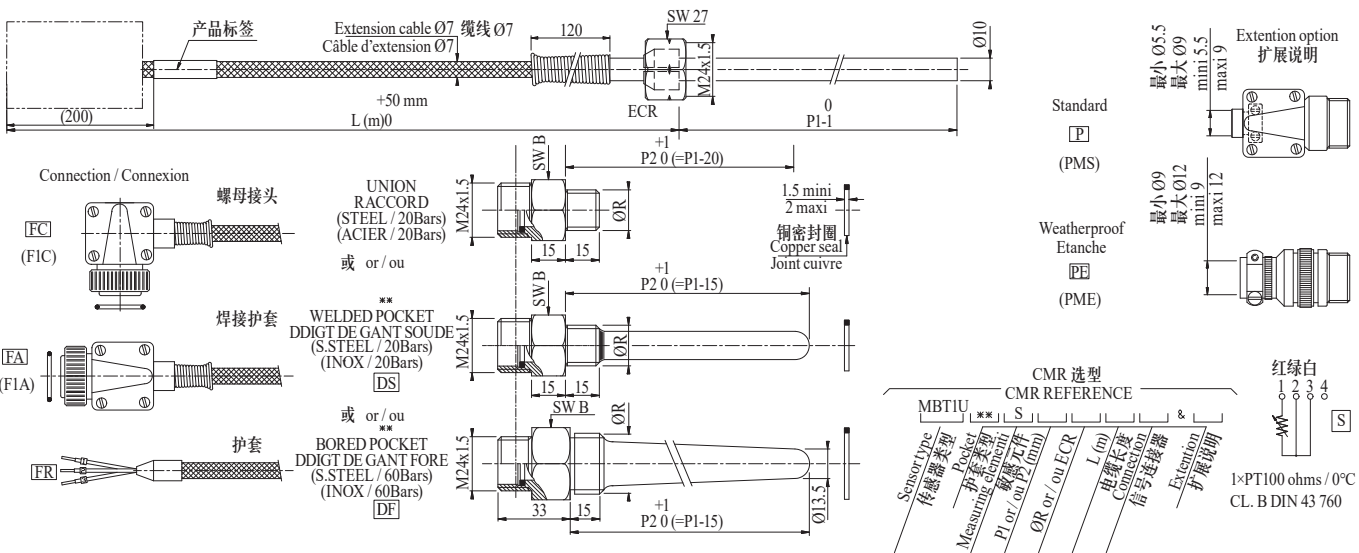
Fluids Temperature Sensor

专为测量水温而设计的温度传感器，具有耐高振动、耐高温（环境温度）等性能。所配插头可连接到温度或信号方管上。

Temperature sensor specially designed for measuring water temperatures. Heavy vibration resistant. High ambient temperature to be measured. Connection to pyrometric or thermometric pipe.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

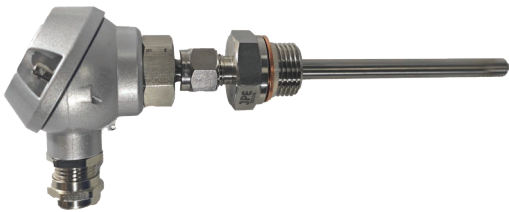
热敏元件 Measuring Element	PT100/PT1000	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	1/4NPT,M12×1.75,M14×1.5 或指定 1/4NPT,M12×1.75,M14×1.5 or required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	F1A/F1C, F2A/F2C, F1RA/F1RC,F7A
最高测量值 Measurement Range Max	220℃	其他可选项 Other Options	NA
精度 Accuracy	IEC60751	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MBT1U DS S 80 M18 1 F1A

MPT108 流体温度传感器

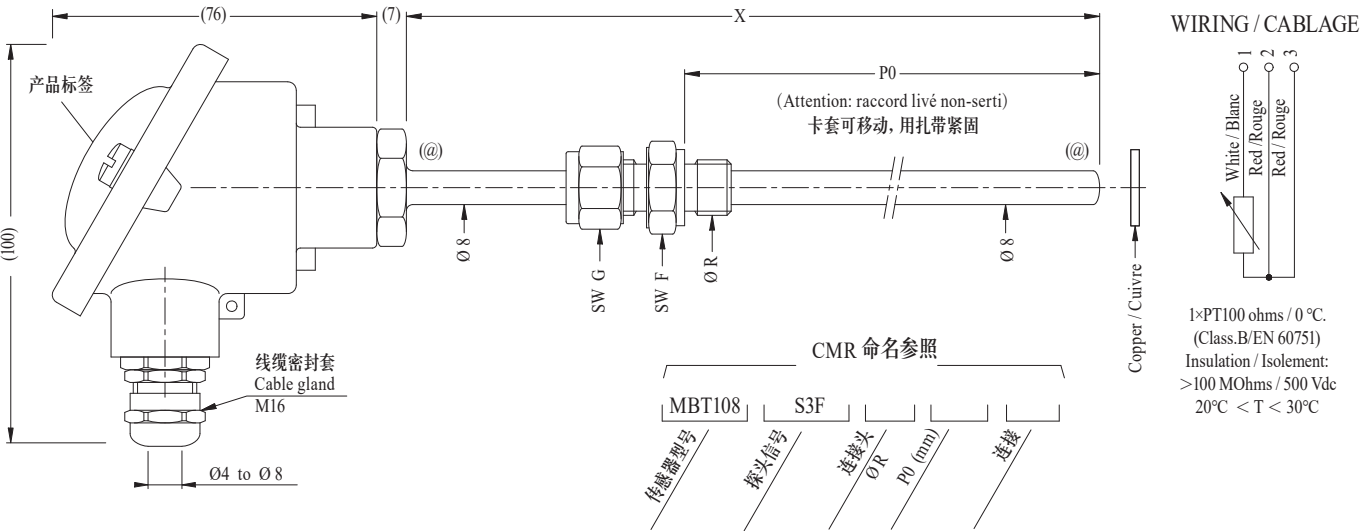
Fluids Temperature Sensor

探头部位为不锈钢材质，连接插头符合 DIN B 标准，可调节测量深度，可在腐蚀性环境中工作。适用于各种流体的温度测量，尤其适用于 250℃及以下温度，例如：冷却水、润滑油温度。具有极高的抗振和抗冲击性能。

The probe is made of stainless steel with DIN B standard connector, adjustable measurement depth, can operation in corrosive environments. It is suitable for temperature measurement of various fluids, especially for temperatures below 250℃, For example: cooling water, lubricating oil temperature. with extremely high vibration and impact resistance.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

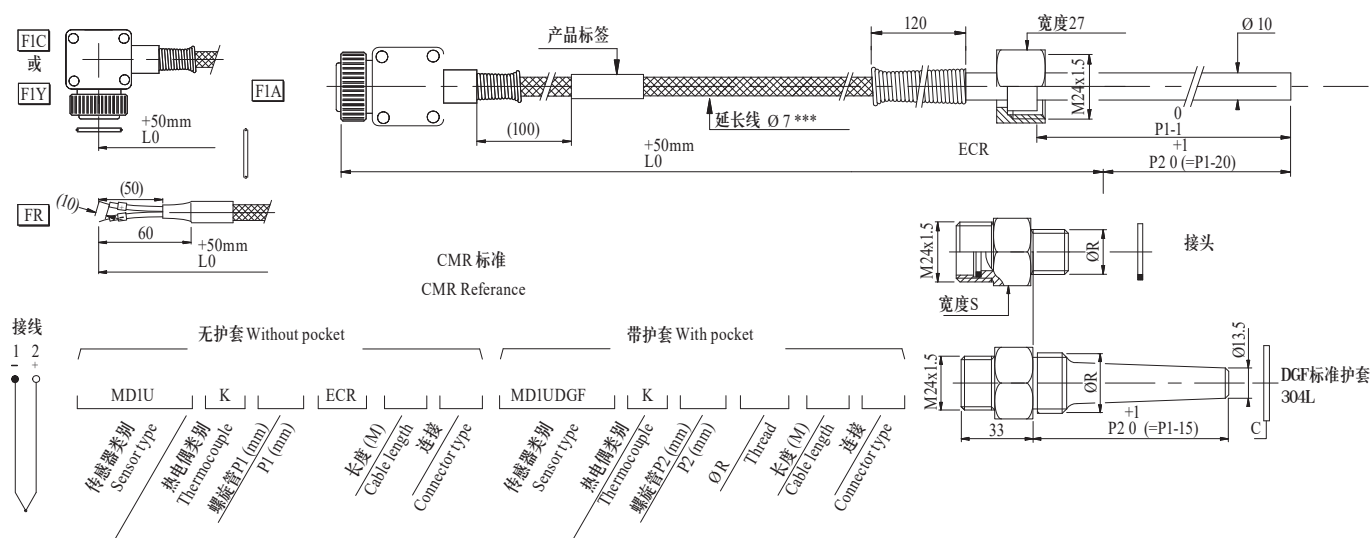
热敏感元件 Measuring Element	PT100	防护等级 IP	IP65
绝缘性能 Insulation	> 100MΩ/500Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-50℃	连接螺纹规格 Connection Thread	G1/2, G3/4, M16×1.5 或指定 G1/2, G3/4, M16×1.5or required
最高测量值 Measurement Range Max	250℃	电信号连接器 Electrical Connection	DIN B
精度 Accuracy	IEC60751	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MPT 108 S3F 1/4BSPP 100 DIN.B

排气温度传感器 —————
Exhaust Gas Temperature Sensor

Can be connected directly to CMR pyrometric pipe, universal lead out and connection, rapid response time due to minimum tube thickness at tip, fixed depth allowing monitoring for variations between cylinders, easy to maintain and inspect, reducing any risk of error. Complies with the requirements of the classification society and with standards NF-C 42321,322,323 and 324.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

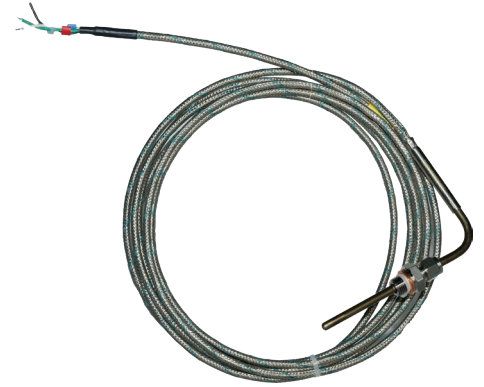
热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	M18×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M18×1.5, M22×1.5, M27×1.5or, 1/2BSPP required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	F1A/F1C/F1Y/F1S,F8A,DIE,DIR 或指定 F1A/F1C/F1Y/F1S,F8A,DIE,DIR or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	4-20mA 电流输出 4-20mA output
精度 Accuracy	IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MD1U K 95 ECR 3 F1A

MD11 排气温度传感器

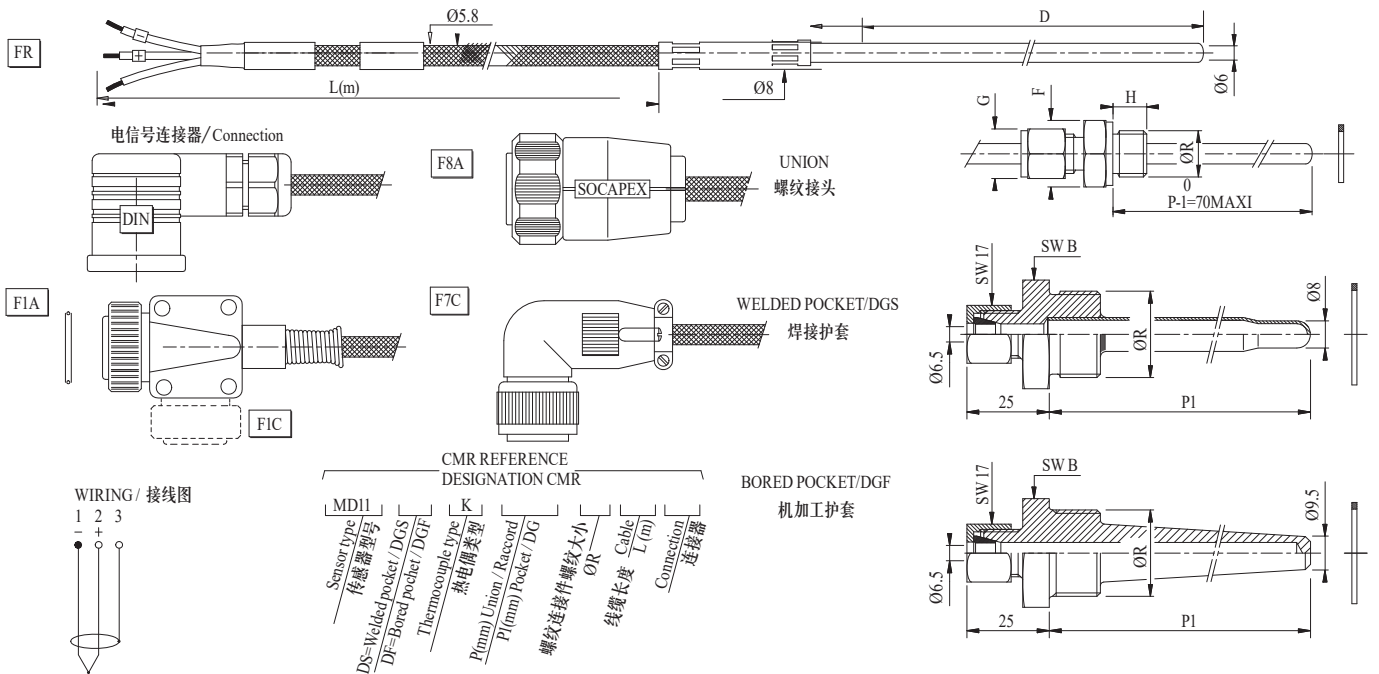
Exhaust Gas Temperature Sensor

适用于各类工业测温环境的应用。不锈钢保护套可根据不同工作压力选择。探头部分根据使用场景可进行不同角度的折弯。

Suitable for various industrial temperature measurement environments, Stainless steel protective sleeves can be selected according to different working pressures. The probe part can be bent at different angles according to the usage scenario.



配置和选型说明 | Configuration & CMR Reference



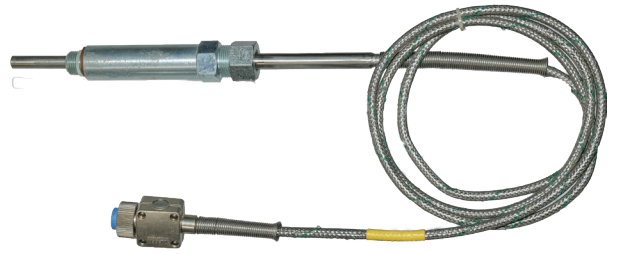
技术参数 | Technical Parameter

热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	M18×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M18×1.5, M22×1.5, M27×1.5or, 1/2BSPP required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	F1A/F1C/F1Y/F1S,F8A,DIE,DIR 或指定 F1A/F1C/F1Y/F1S,F8A,DIE,DIR or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	4-20mA 电流输出 4-20mA output
精度 Accuracy	IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MD11DF K 80 M18 90 4.5 FR

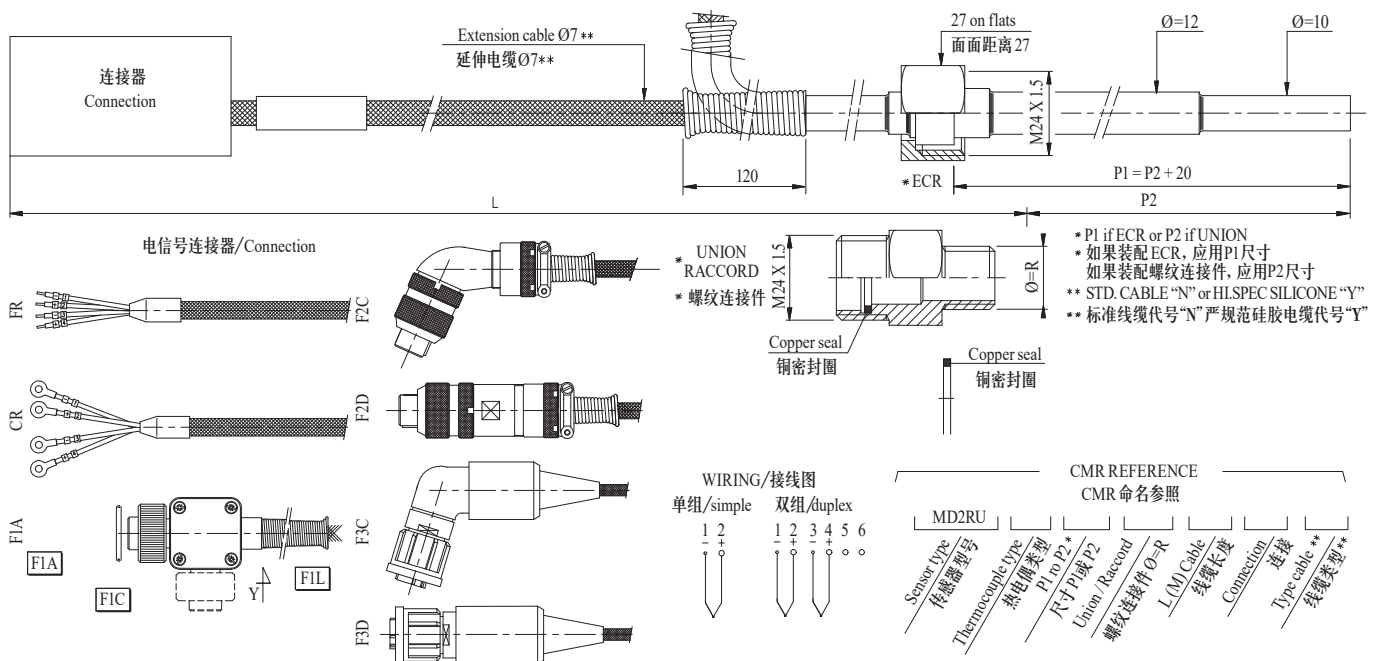
MD2RU 排气温度传感器 Exhaust Gas Temperature Sensor

有单组和双组敏感元件两类传感器可供选择，增加可靠性，减少维护成本。不锈钢护套可根据不同工作压力选择。探头部分根据使用场景可进行不同角度的折弯。

There are two types of sensors, single and double sensitive elements, to increase reliability and reduce maintenance costs. Stainless steel sheath can be selected according to different working pressure. The probe part can be bent at different angles according to the usage scenario.



配置和选型说明 | Configuration & CMR Reference

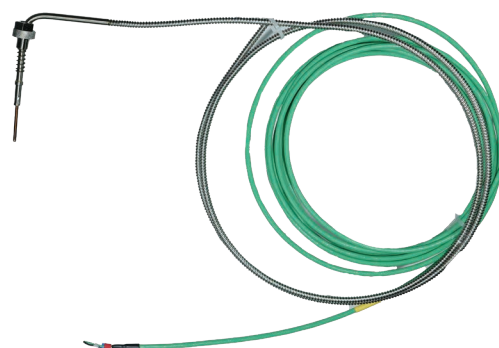


技术参数 | Technical Parameter

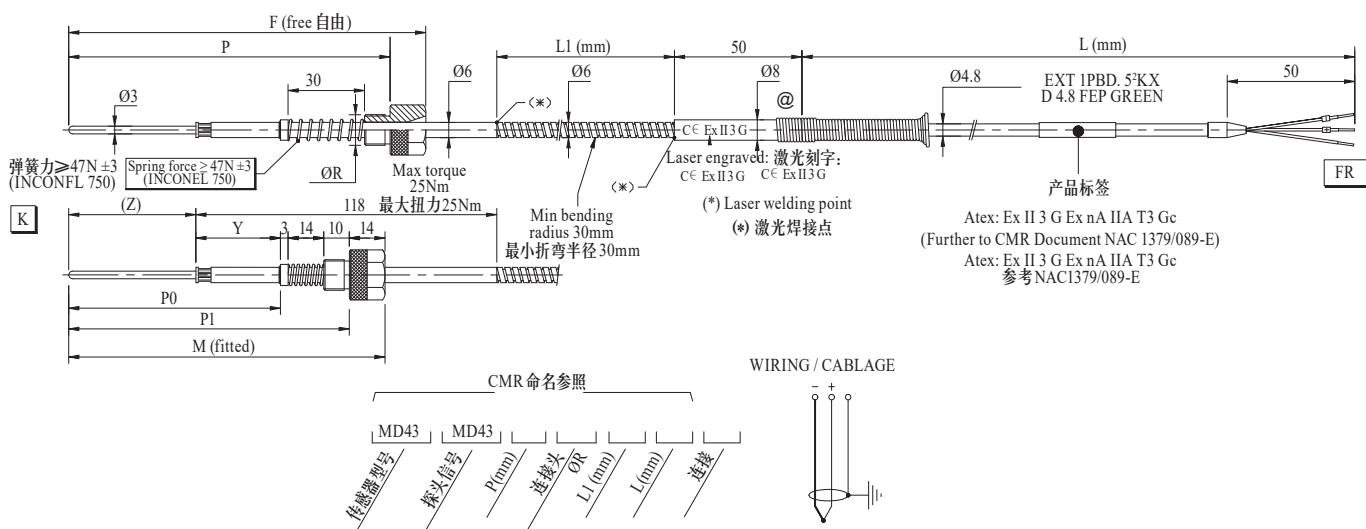
热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	M18×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M18×1.5, M22×1.5, M27×1.5or, 1/2BSPP required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	F1A/F1C/F1Y/F1S, F8A, DIE, DIR 或指定 F1A/F1C/F1Y/F1S, F8A, DIE, DIR or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	4-20mA 电流输出 4-20mA output
精度 Accuracy	IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MD2RU K 80 M18 5 FR

排气温度传感器 —————
Exhaust Gas Temperature Sensor

Suitable for various industrial temperature measurement environments. High temperature and vibration resistance . Small size, easy to install.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MQ/500Vdc	连接螺纹规格 Connection Thread	M14×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M14×1.5, M22×1.5, M27×1.5or, 1/2BSPP required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	FR/F1A/F7A 或指定 FR/F1A/F7A or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	4-20mA 电流输出 4-20mA output
精度 Accuracy	IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MD43 K 180 M12 7.95 – 7 FR

CAN signal output is adopted. The probe end can be fitted with a sheath for easy replacement, The probe part can be bent at different angles according to the usage scenario.

[illegible]

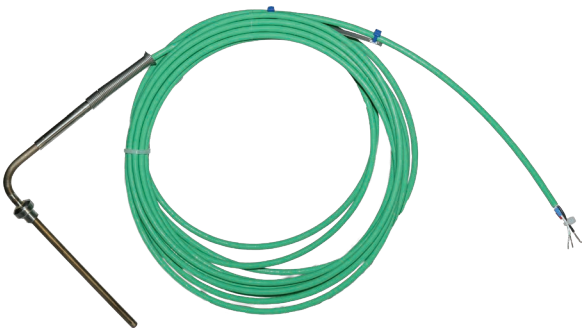
热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	M18×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M18×1.5, M22×1.5, M27×1.5or, 1/2BSPP required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	DT6M 或指定 DT6M or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	CAN 信号输出 CAN Signal output
精度 Accuracy	IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MD43.3 DF K P1 M18 L1/L2(mm)CAN 6DTM

MC29.2 排气温度传感器

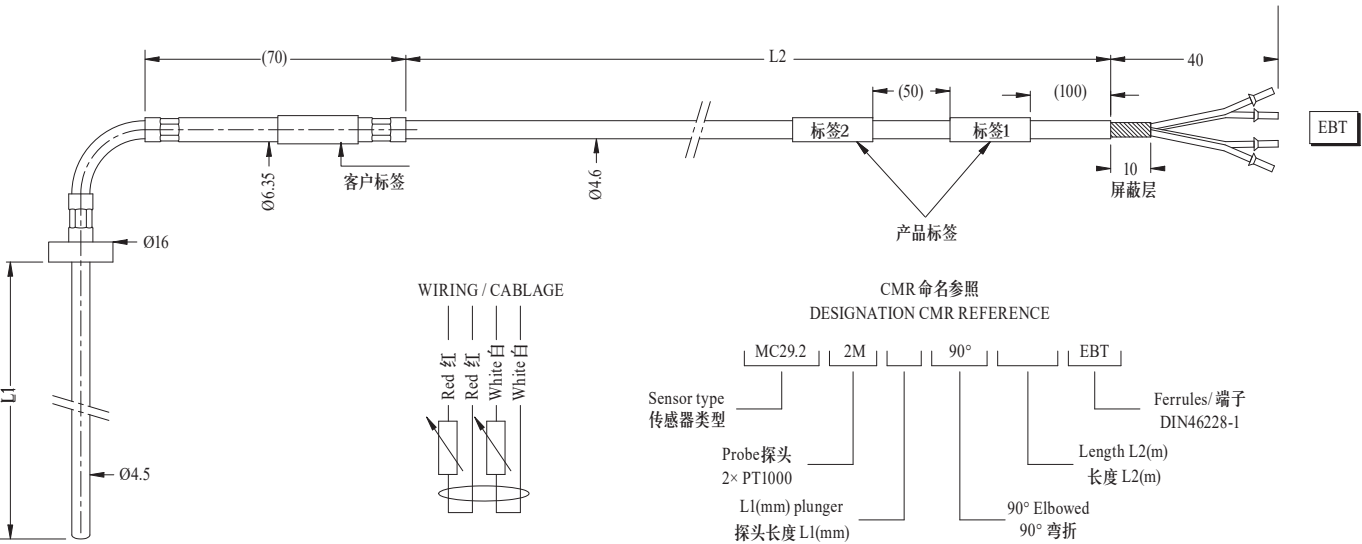
Exhaust Gas Temperature Sensor

适用于各类工业测温环境的应用。探测端采用双 PT1000 或双 K 型热电偶。探头部分根据使用场景可进行不同角度的折弯。

Suitable for various industrial temperature measurement environments. The detection section adopts double PT1000 or double K thermocouple. The probe part can be bent at different angles according to the usage scenario.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	单 K/ 双 K 型热电偶或双 PT1000 Duplex Thermocouple K or Duplex PT1000	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/100Vdc	连接螺纹规格 Connection Thread	法兰 Flange
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	FR or EBT FR 或 EBT
最高测量值 Measurement Range Max	700℃	其他可选项 Other Options	NA
精度 Accuracy	IEC60751	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MC29.2 129 90 2 EBT

MC31 排气温度传感器

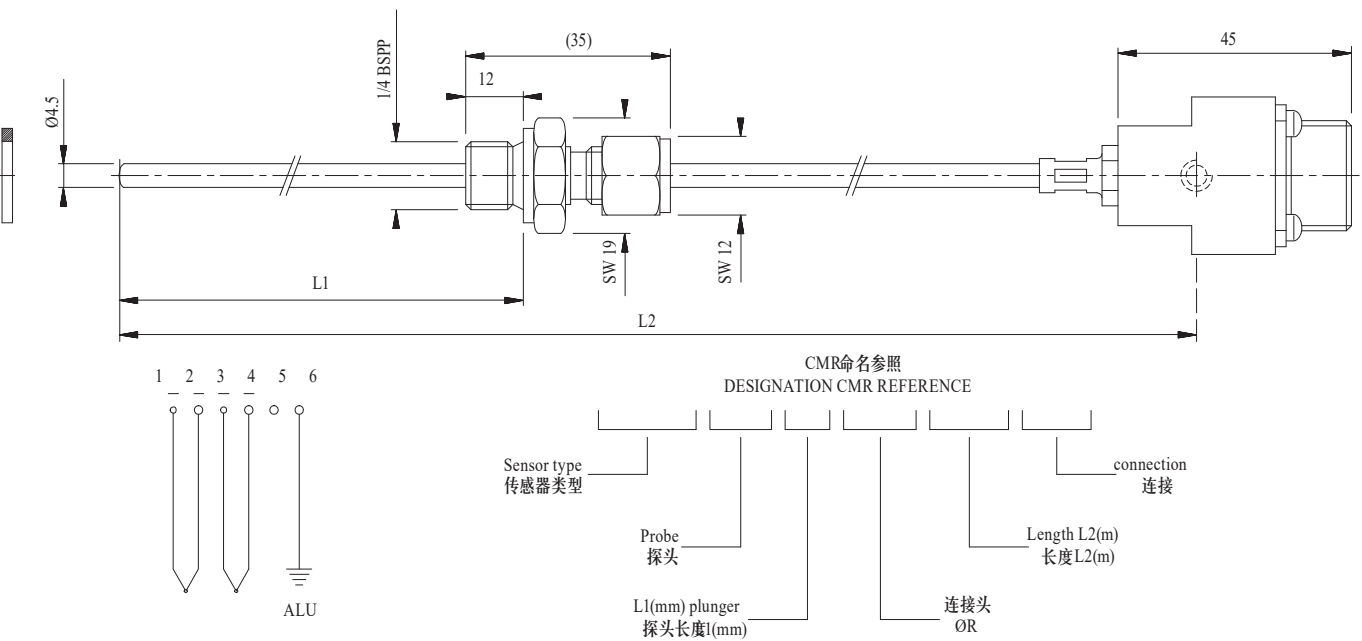
Exhaust Gas Temperature Sensor

适用于各类工业测温环境的应用。探测端采用双 K 型热电偶。连接器部分可选不同角度折弯或不折弯。

Suitable for various industrial temperature measurement environments. The detection section adopts double K thermocouple. Connection can be bent or not bent at different angles



配置和选型说明 | Configuration & CMR Reference



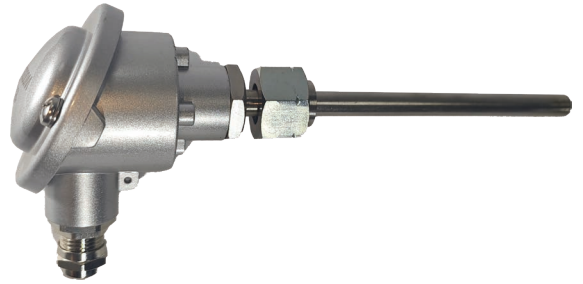
技术参数 | Technical Parameter

热敏感元件 Measuring Element	双 K 型热电偶 Duplex Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	1/4 BSPP 或制定 1/4 BSPP or required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	E1
最高测量值 Measurement Range Max	600℃	其他可选项 Other Options	NA
精度 Accuracy	UTEC 46 201	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MC31A 2KI 82 1/4 E1

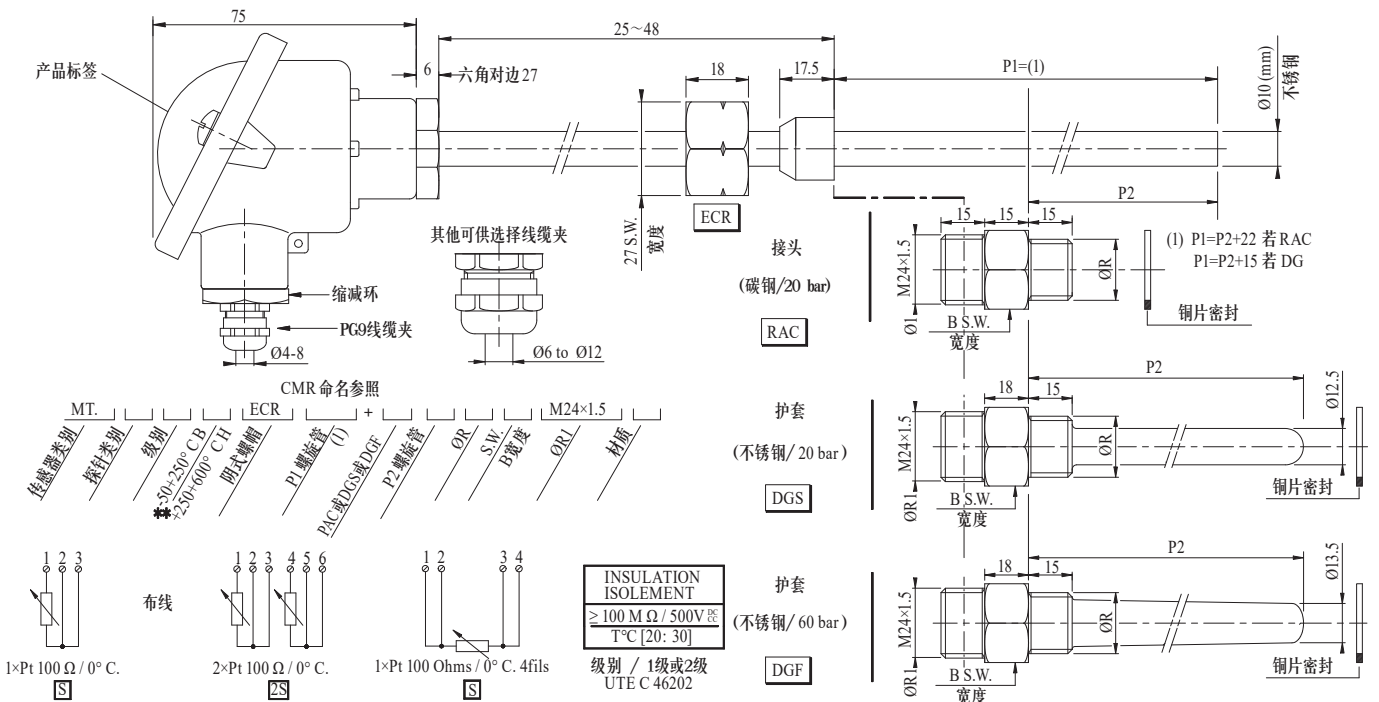
MT.S 排气温度传感器 Exhaust Gas Temperature Sensor

用于检验排气温度，耐高温和振动。有单组 PT100 和双组 PT100 敏感元件可供选择，可调节探测深度，增加可靠性，减少维护成本。

Specially for exhaust temperature, , vibration tolerance and high ambient temperature. Single and dual PT100 sensors are available, can adjust the depth of detection, to increase reliability and reduce maintenance costs.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	PT100 或双 PT100	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	M14×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M14×1.5, M22×1.5, M27×1.5, 1/2BSPP or required
最低测量值 Measurement Range Min	-50°C	电信号连接器 Electrical Connection	DIN.B
最高测量值 Measurement Range Max	250°C or 600°C	其他可选项 Other Options	NA
精度 Accuracy	UTEC 46 202	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MT. S2H ECR 80 à 99

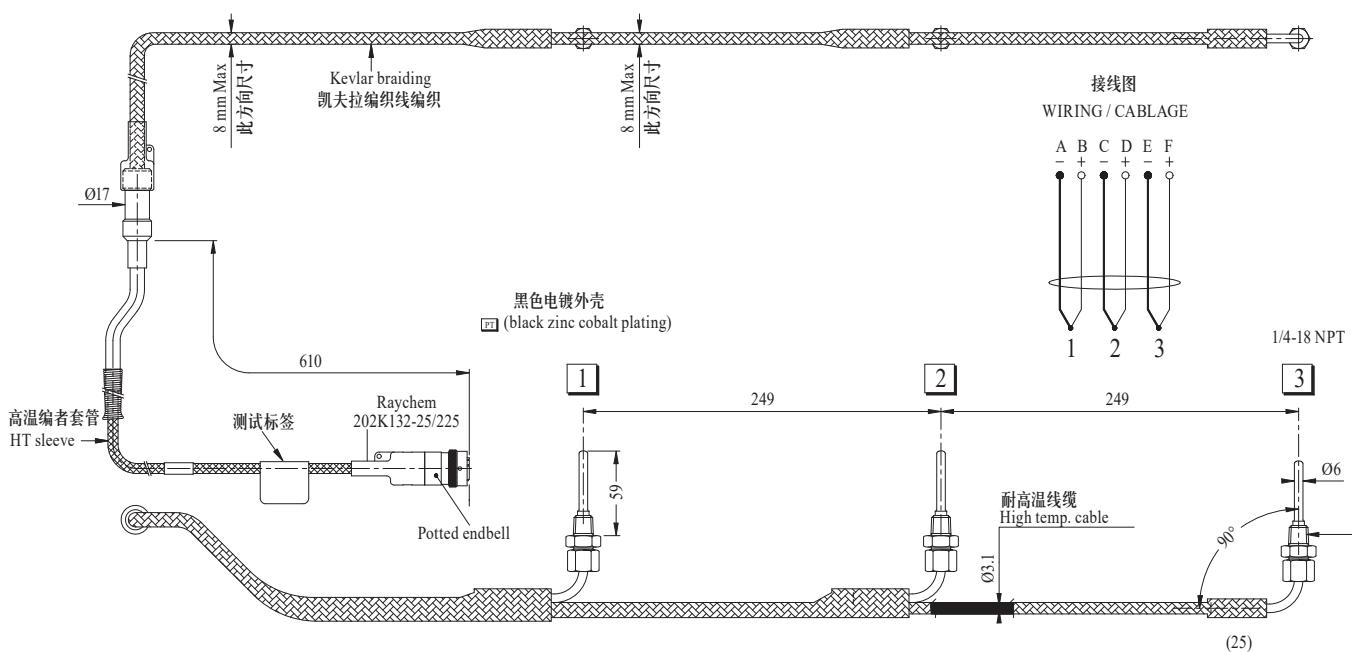
EGT78 排气温度传感器 Exhaust Gas Temperature Sensor

三个 K 型热电偶传感器探头由编织线固定连接同一个连接器，耐高温和振动。外形体积小，便于安装。

Three type K thermocouple sensor probes are fixed by braided wire connected to the same connector, resistant to high temperature and vibration. Small size, easy to install.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	1/4NPT
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	PT
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	NA
精度 Accuracy	UTEC 46 201	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	EGT78R 3K 59 1/4N 610 PT Step 3c HT fix KEV

EGT80 排气温度传感器

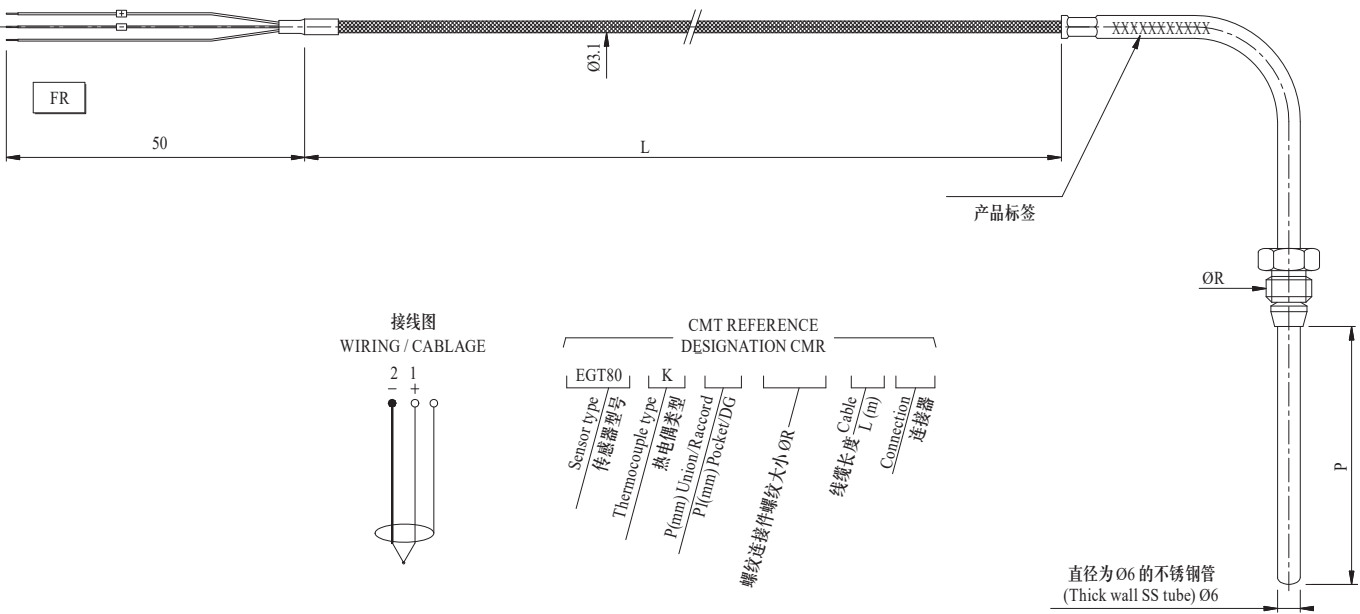
Exhaust Gas Temperature Sensor

适用于各类工业测温环境的应用。耐高温和振动。外形体积小，便于安装。

Suitable for various industrial temperature measurement environments. High temperature and vibration resistance . Small size, easy to install.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	1/4NPT,M12×1.75, M14×1.5 或指定 1/4NPT,M12×1.75, M14×1.5 or required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	FR/2DTM 或指定 FR/2DTM or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	NA
精度 Accuracy	UTEC 46 201	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	EGT80 K 68 M12 500 FR

EGT.5 排气温度传感器

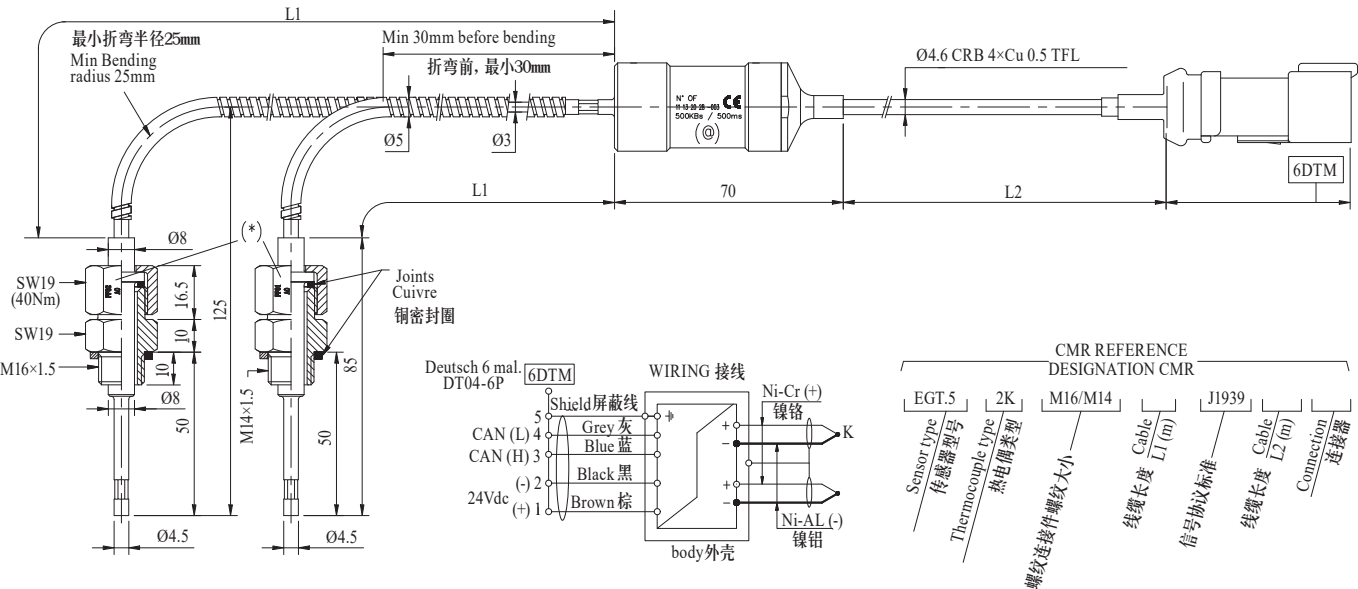
Exhaust Gas Temperature Sensor

采用 CAN 信号输出，双探头，耐高温和振动。外形体积小，便于安装。

Adopts CAN output signal, dual probe sensor, resistant to high temperature and vibration. Small size, easy to install.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/50Vdc	连接螺纹规格 Connection Thread	M14×1.5, M16×1.5 或指定 M14×1.5, M16×1.5 or required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	6DTM 或指定 6DTM or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	CAN 信号输出 CAN Signal output
精度 Accuracy	IEC60584-1	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	EGT.5 2K M16/M14 1.05 J1939 0.5 6DTM

MD20 涡轮增压温度传感器

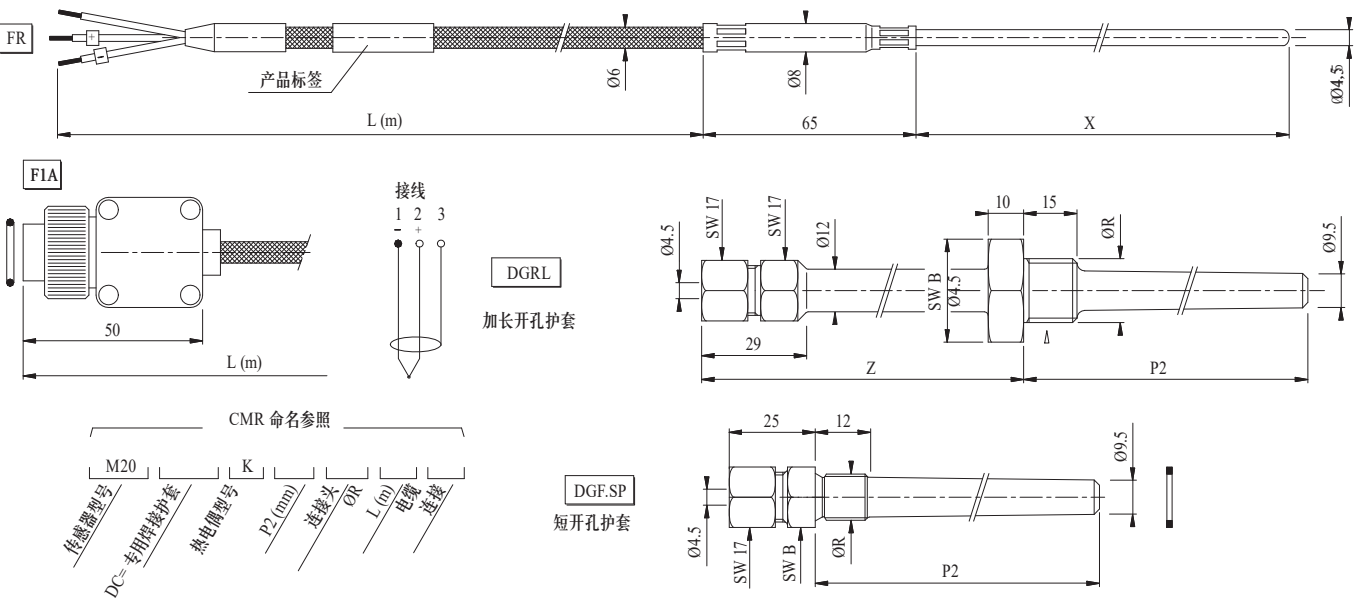
Turbocharger Temperature Sensor

用于检验涡轮增压或排气温度，耐高温和振动。可选择卡套安装或不锈钢护套安装。

Specially for measuring turbocharger or exhaust gas temperature , vibration tolerance and high ambient temperature . Can choose to install with a card sleeve or stainless steel sheath.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	K 型热电偶 Thermocouple K	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	M18×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M18×1.5, M22×1.5, M27×1.5, 1/2BSPP required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	F1A/F1C/F1Y/F1S,F8A,DIE,DIR 或指定 F1A/F1C/F1Y/F1S,F8A,DIE,DIR or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	NA
精度 Accuracy	IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MD20 K 560 2 F1A

MD20.2 涡轮增压温度传感器

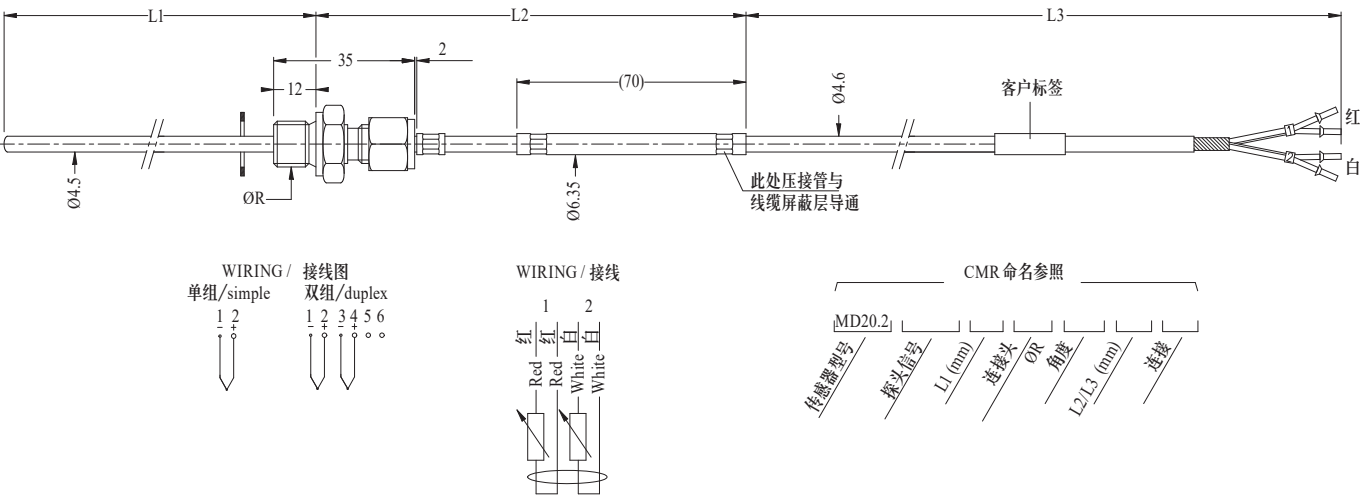
Turbocharger Temperature Sensor

用于检验涡轮增压温度，耐高温和振动。有单组和双组敏感元件或热电偶多类传感器可供选择，增加可靠性，减少维护成本。

Specially for measuring turbocharger temperature, vibration tolerance and high ambient temperature. There are several types of sensors, single and double sensitive elements, to increase reliability and reduce maintenance costs.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

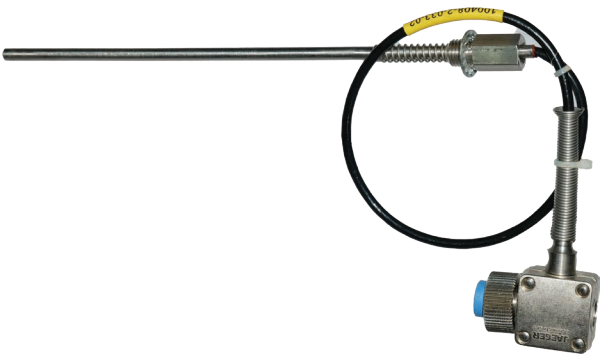
热敏感元件 Measuring Element	PT100/PT1000/K 型热电偶 Thermocouple K/PT100/PT1000	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
绝缘性能 Insulation	> 100MΩ/500Vdc	连接螺纹规格 Connection Thread	M18×1.5, M22×1.5, M27×1.5, 1/2BSPP 或指定 M18×1.5, M22×1.5, M27×1.5or, 1/2BSPP required
最低测量值 Measurement Range Min	-50℃	电信号连接器 Electrical Connection	FR/EBT/ 或指定 FR/EBT or required
最高测量值 Measurement Range Max	800℃	其他可选项 Other Options	NA
精度 Accuracy	IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MD20.2 2M 100 1/4 D 300/650 EBT

MP12.6 轴承温度传感器

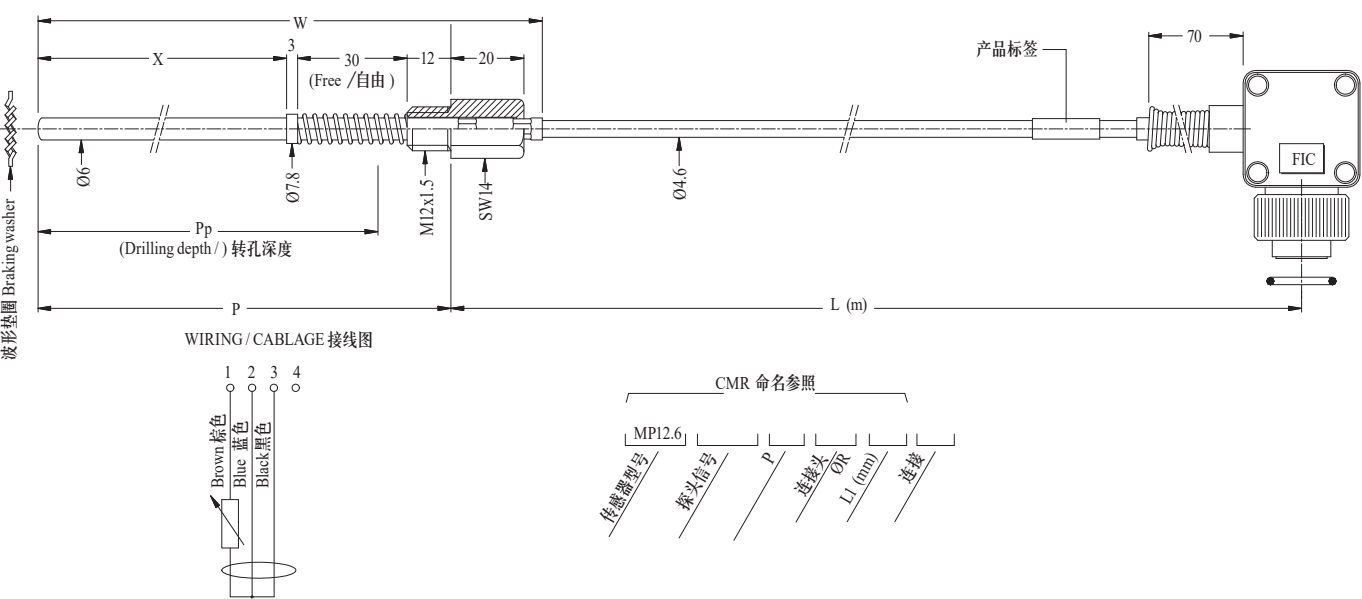
Bearing Temperature Sensor

采用铂电阻 Pt100 和 Pt1000 热敏感元件，安装部分可由弹簧调节。
安装方便简洁，具有极高的抗振和抗冲击性能。

Adopts platinum resistance Pt100 and Pt1000 heat sensors, and the mounting part can be adjusted by a spring. Easy to install and simple, with very high vibration and impact resistance.



配置和选型说明 | Configuration & CMR Reference



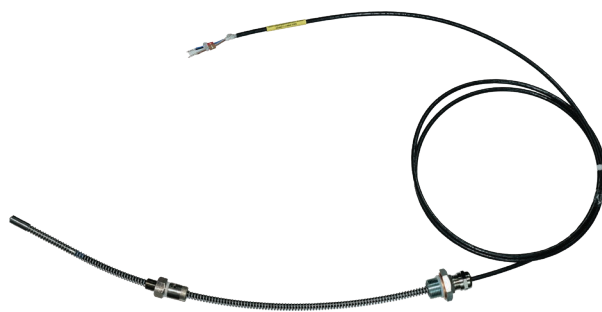
技术参数 | Technical Parameter

热敏感元件 Measuring Element	PT100/PT1000	防护等级 Ip	IP65
绝缘性能 Insulation	> 100MΩ/500Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-50℃	连接螺纹规格 Connection Thread	M10×1, M12×1, G1/4
最高测量值 Measurement Range Max	150℃	电信号连接器 Electrical Connection	FR, F1C, FR
精度 Accuracy	UTEC 46 202	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MP12.6 S P M12 L F1C

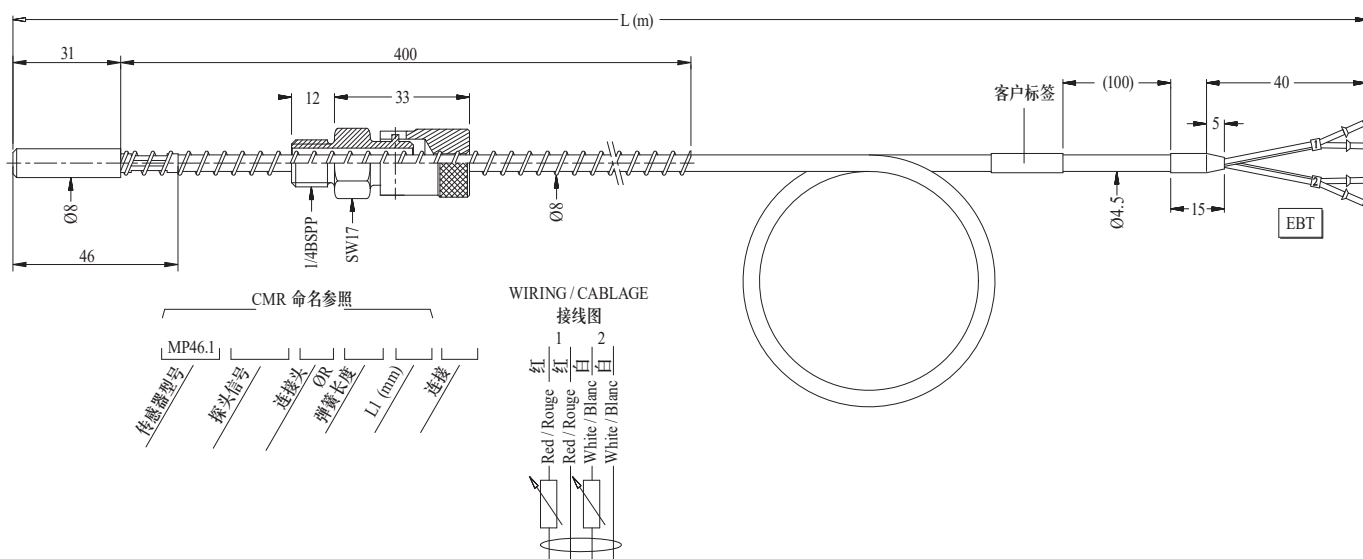
MP46.1 轴承温度传感器 Bearing Temperature Sensor

采用铂电阻 Pt100 和 Pt1000 热敏感元件和 K 型热电偶, 探头部位为不锈钢材质。安装方便简洁, 具有极高的抗振和抗冲击性能。

Adopts platinum resistance Pt100 and Pt1000 heat sensitive elements and K-type thermocouple, and the probe part is made of stainless steel. Easy to install and simple, with very high vibration and impact resistance.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

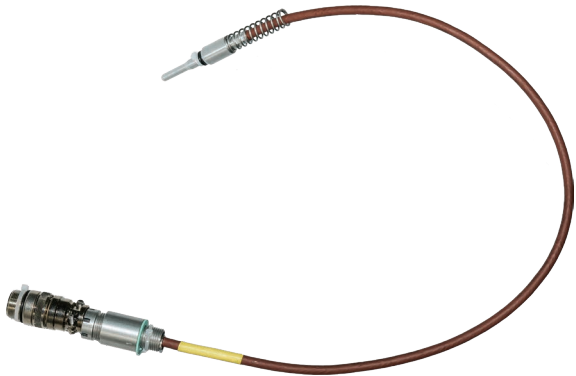
热敏感元件 Measuring Element	PT100/PT1000/K 型热电偶	防护等级 IP	IP65
绝缘性能 Insulation	> 100MΩ/100Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-50℃	连接螺纹规格 Connection Thread	G1/4
最高测量值 Measurement Range Max	200℃	电信号连接器 Electrical Connection	FR, EBT
精度 Accuracy	EN60751/IEC584-2	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	MP46.1 2M 1/4 0.4 L(m) EBT

CTHP

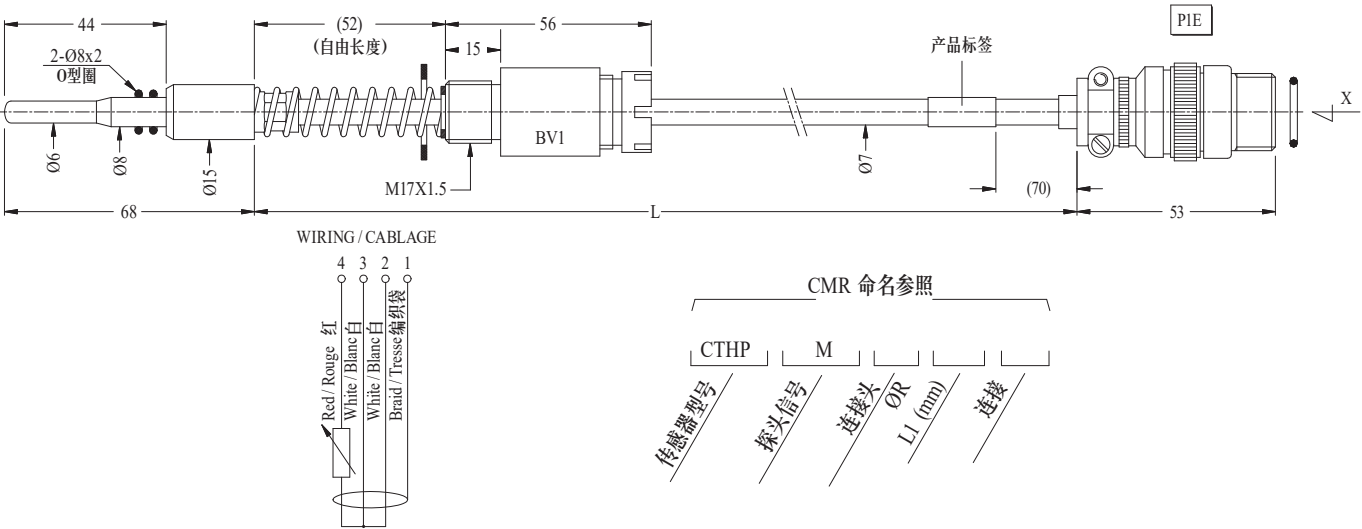
轴承润滑油温度传感器
Bearing Oil Temperature Sensor

采用铂电阻 Pt100 和 Pt1000 热敏感元件，探头部位为不锈钢材质。
该产品安装方便简洁，具有极高的抗振和抗冲击性能。

Adopts platinum resistance Pt100 and Pt1000 heat sensitive elements, and the probe part is made of stainless steel. Easy to install and simple, with very high vibration and impact resistance.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏感元件 Measuring Element	PT100/PT1000	防护等级 IP	IP65
绝缘性能 Insulation	> 100MΩ/500Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-50℃	连接螺纹规格 Connection Thread	M17×1.5
最高测量值 Measurement Range Max	150℃	电信号连接器 Electrical Connection	P1E
精度 Accuracy	UTEC 46 202	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	CTHP S M17/PG9 0.7 P+F1E

TCM2.1 液化天然气温度传感器

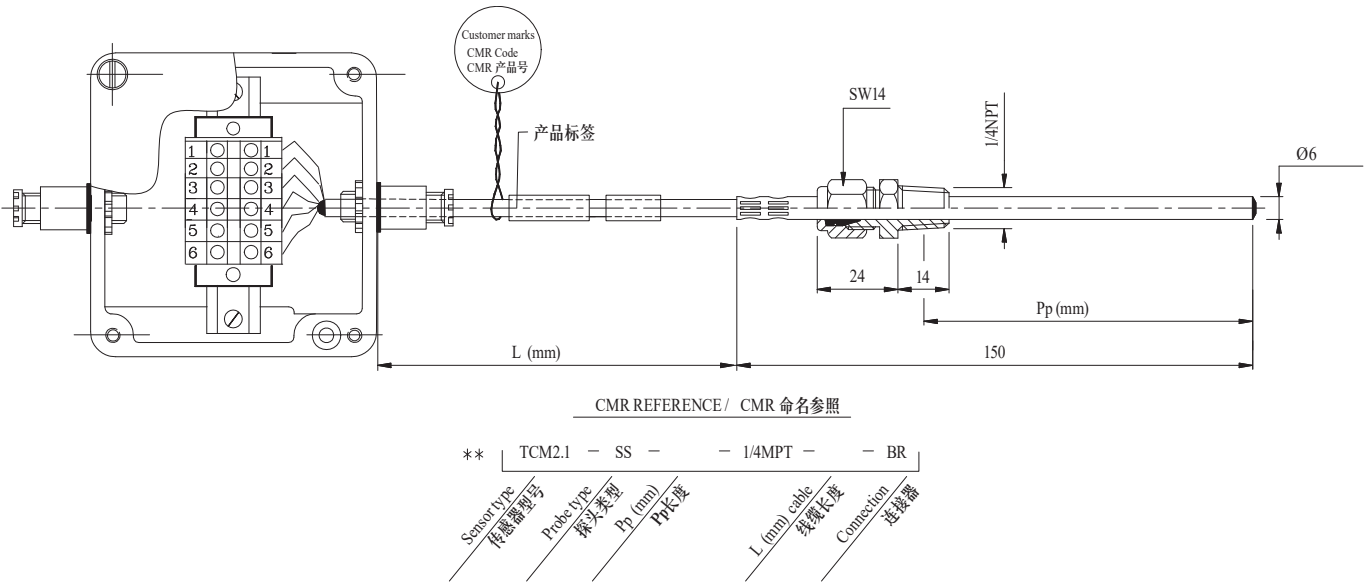
Liquid Natural Gas Temperature Sensor

测量温度范围 -200℃ 到 +200℃ (探头和延长电缆)，精度分为 1 级和 2 级，符合 UTE46202 标准。对于更特殊的使用场合，可考虑选用 MIC(矿物绝缘电缆) 敏感元件。专为检测 LNG 船次级防护层和双层船体空间中的液化天然气泄露而设计。

Measurement temperature range -200 °C to +200 °C ,the accuracy is divided into class 1 and class 2. compliant with UTE46202 standard. We are also capable to make a special version for extreme situations with a MIC (Mineral Insulated Cable), which allows you to use these sensors in immersed locations. Specially designed for the monitoring of gas leaks in the space of secondary barrier and double hull of LNG tanks.



配置和选型说明 | Configuration & CMR Reference



技术参数 | Technical Parameter

热敏元件 Measuring Element	PT1000	防护等级 IP	IP65
绝缘性能 Insulation	> 100MΩ/500Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-200℃	连接螺纹规格 Connection Thread	1/8 NPT
最高测量值 Measurement Range Max	200℃	电信号连接器 Electrical Connection	AMP
精度 Accuracy	EN60751	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	TCM2.1 SS 80 1/4NPT 5 BR

TCM.6 液化天然气温度传感器

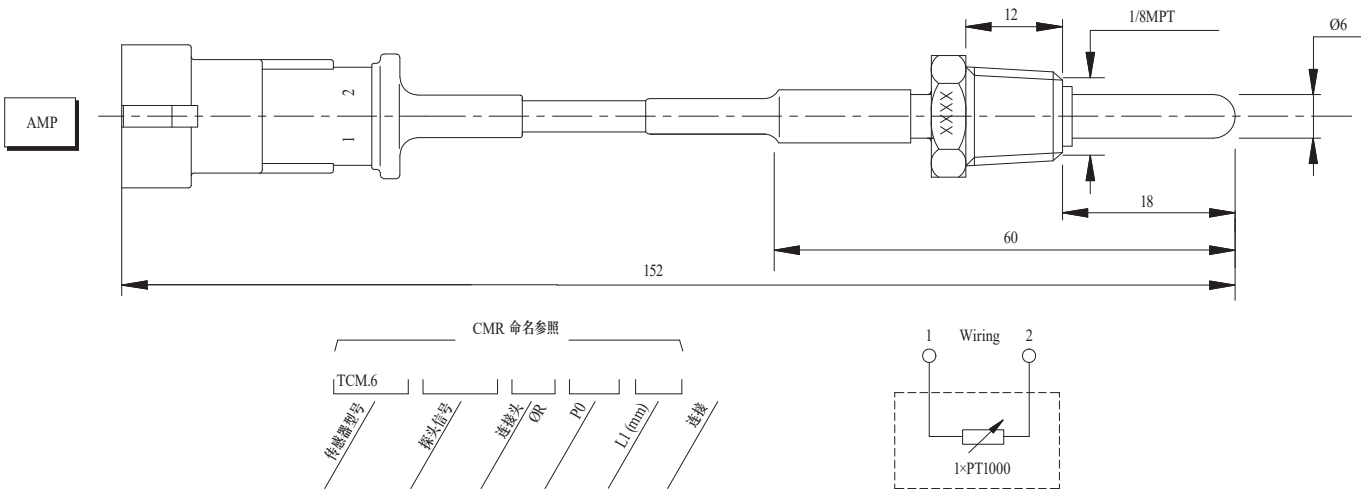
Liquid Natural Gas Temperature Sensor

采用铂电阻 Pt1000 热敏感元件，探头部位为不锈钢材质，可在腐蚀性环境中工作，具有极高的抗振和抗冲击性能。专为检测 LNG 车次级防护层和双层车体空间中的液化天然气泄露而设计。

Adopts platinum resistance Pt1000 heat sensitive element, the probe part is made of stainless steel, can work in corrosive environments, with extremely high vibration and impact resistance. Specially designed for the monitoring of gas leaks in the space of secondary barrier and double hull of LNG tanks



配置和选型说明 | Configuration & CMR Reference



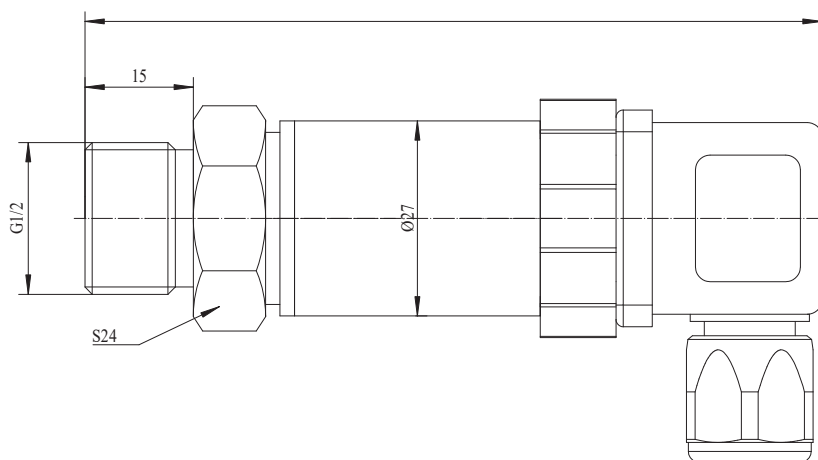
技术参数 | Technical Parameter

热敏感元件 Measuring Element	PT1000	防护等级 IP	IP65
绝缘性能 Insulation	> 100MΩ/500Vdc	探头长度 Probe Length	任选 (单位: mm) Customer required (unit: mm)
最低测量值 Measurement Range Min	-200℃	连接螺纹规格 Connection Thread	1/8 NPT
最高测量值 Measurement Range Max	200℃	电信号连接器 Electrical Connection	AMP
精度 Accuracy	EN60751	选型 Reference	详见配置和选型说明 See configuration & CMR reference
材质 Material of Construction	不锈钢 Stainless steel	选型举例 Example	TCM.6 M 1/8NPT 22 50 AMP

MPC3000/3050

High Temperature Pressure Transmitters

MPC3000 series of high temperature pressure transmitters is suitable for various industrial applications . Reliable pressure measurement results can be achieved even in harsh environments . The program of this pressure sensor is very flexible and offers different output signals, absolute or relative (instrument) versions, high vibration stability and durability. Measurement ranges from 0-1ba to 0-600bar, provide a wide variety of pressure and electrical connections.

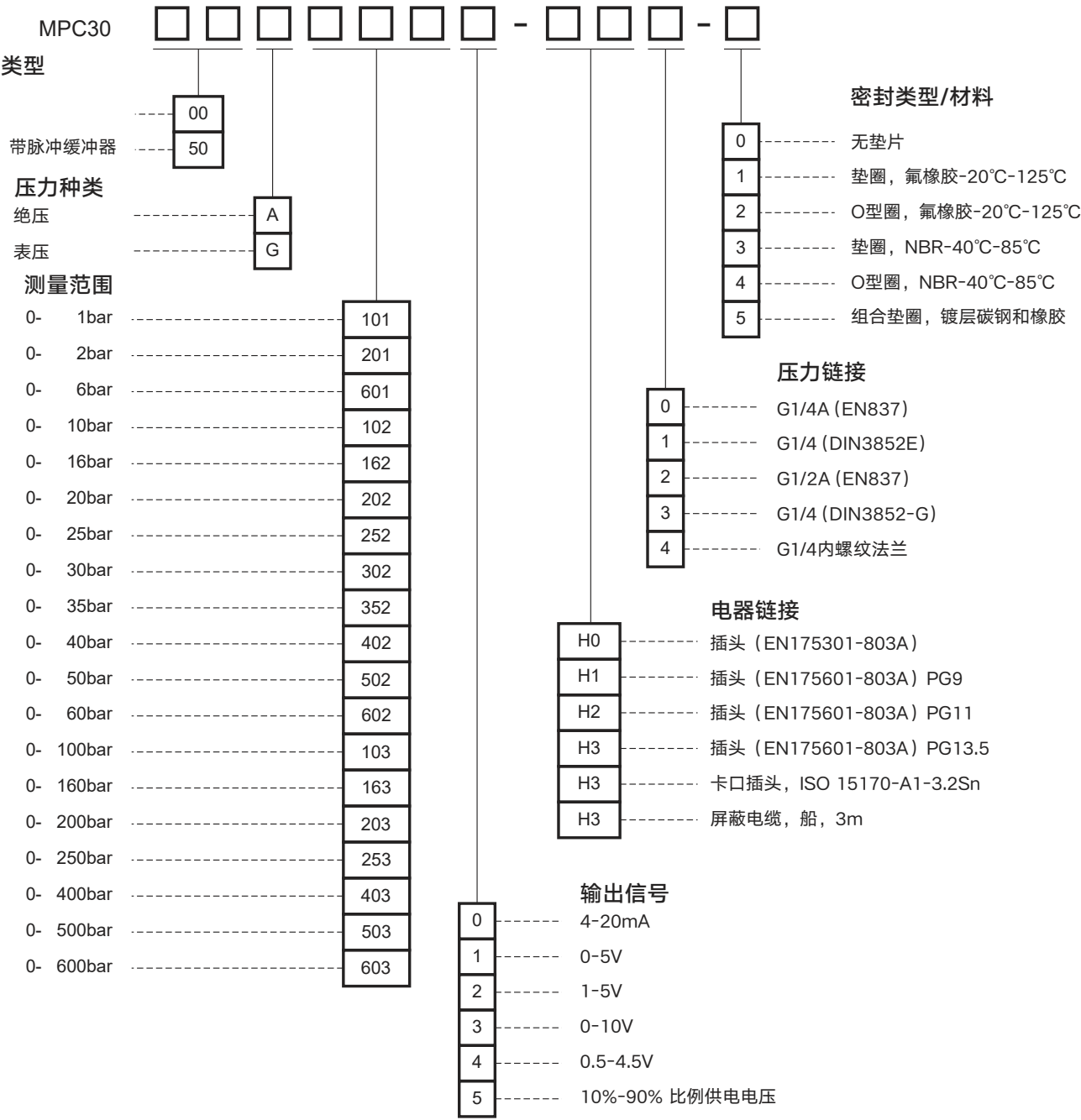


精度 Accuracy	1%	材质 Material of Construction	不锈钢外壳 Stainless steel shell
最低工作温度 Operating Temp Min	-40℃	探头长度 Probe Length	> 100MΩ/100Vdc
最高工作温度 Operating Temp Max	120℃	连接螺纹规格 Connection Thread	G1/4,G1/2, 法兰 G1/4,G1/2,flange
最低测量值 Measurement Range Min	0bar	电信号连接器 Electrical Connection	插头 (EN175301-803-A) connector (EN175301-803-A)
最高测量值 Measurement Range Max	600bar	信号输出 Signal Output	4-20mA,0-5V,1-5V,0-10V, 10%-90% 电源电压 4-20mA,0-5V,1-5V,0-10V, 10%-90%Supply voltage
最低补偿温度 Compensation Temperature Min	0℃	选型 Reference	详见配置和选型说明 See configuration & CMR reference
最高补偿温度 Compensation Temperature Max	100℃	选型举例 Example	MPC3000 G 101 0 H0 2 0

MPC3000/3050 高温压力变送器

High Temperature Pressure Transmitters

配置和选型说明 | Configuration & CMR Reference

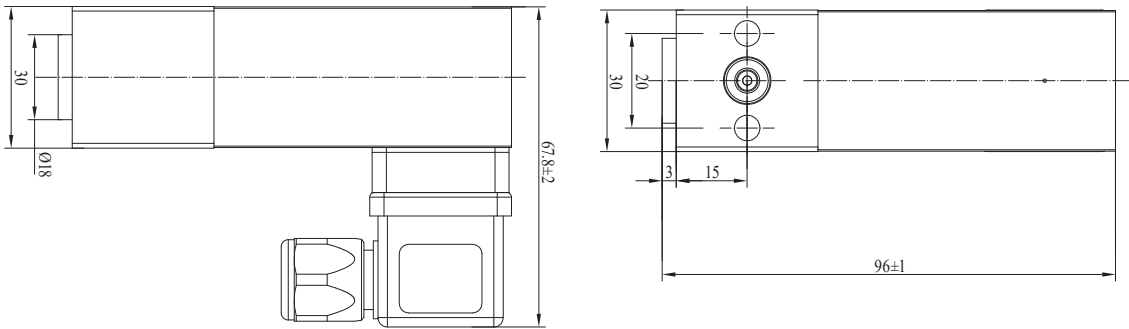


MPC5100/5150

高精度压力变送器
High Precision Pressure Transmitters

MPC5100 系列高精度压力变送器适用于各类工业或船舶应用，配有脉冲缓冲器，适用于在介质影响较强的液压环境（如气蚀、水锤或压力峰值），在恶劣环境中使用也能达到可靠的压力测量结果。其特点为可以提供多种多样的压力与电气连接，抗振稳定性高、耐用性高。

MPC5100 series of high precision pressure transmitters is suitable for various industrial or marine applications, equipped with a pulse buffer, Suitable for hydraulic environment with strong influence on medium , such as cavitation, hydraulic hammer or pressure spikes, Reliable pressure measurement results can be achieved even in harsh environments . A wide variety of pressure and electrical connections are available , high vibration stability, high durability.



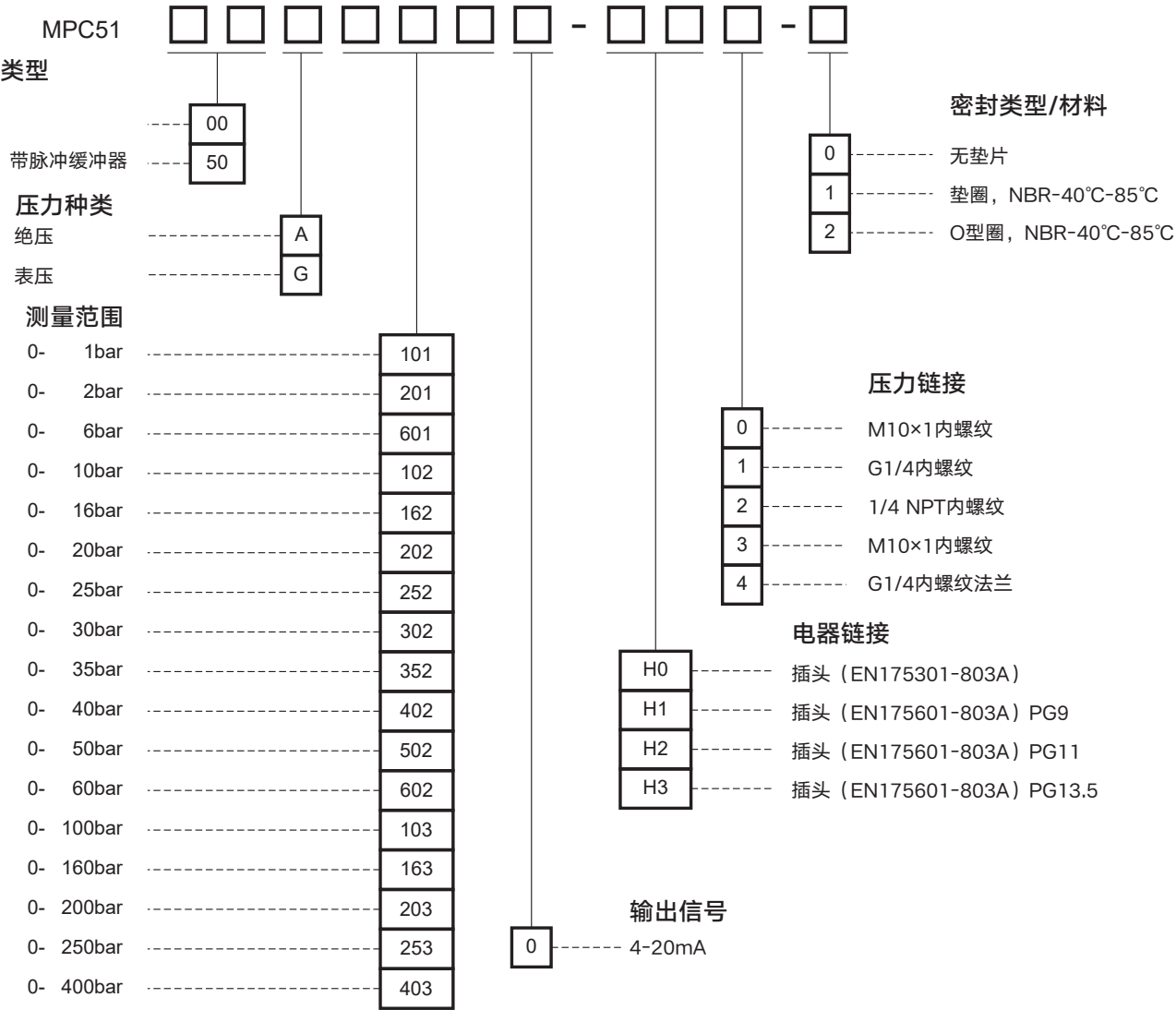
技术参数 | Technical Parameter

精度 Accuracy	0.3%	材质 Material of Construction	不锈钢外壳 Stainless steel shell
最低工作温度 Operating Temp Min	-40℃	探头长度 Probe Length	> 100MΩ/500Vdc
最高工作温度 Operating Temp Max	85℃	连接螺纹规格 Connection Thread	G1/4, 法兰 G1/4, flange
最低测量值 Measurement Range Min	0bar	电信号连接器 Electrical Connection	插头 (EN175301-803-A) connector (EN175301-803-A)
最高测量值 Measurement Range Max	400bar	信号输出 Signal Output	4-20mA
最低补偿温度 Compensation Temperature Min	0℃	选型 Reference	详见配置和选型说明 See configuration & CMR reference
最高补偿温度 Compensation Temperature Max	80℃	选型举例 Example	MPC5100 G 101 0 H0 4 0

MPC5100/5150

高精度压力变送器
High Precision Pressure Transmitters

配置和选型说明 | Configuration & CMR Reference



定制化布线系统

Customized Wiring Systems

刚性方管及柔性布线系统, 设计和制造适用于恶劣环境

广泛应用于工业设备配套、发动机、发电机组、发电厂、海洋船舶、离岸以及矿业等

Rigid pipe and flexible wiring system, design and manufacture suitable for harsh environments

Application in : equipment matching, engine , generator set, generating plant, marine, offshore and mining etc.



该系列为可定制化产品, 最终解释权归 CMR 品牌

请联系销售以获取更多信息

This part is a customized product, the final interpretation right belongs to CMR

Please contact sales for more information.

刚性和柔性预接线解决方案

Rigid and Flexible Pre-wired Wiring Solutions

即插即用解决方案

Plug and Play Solutions

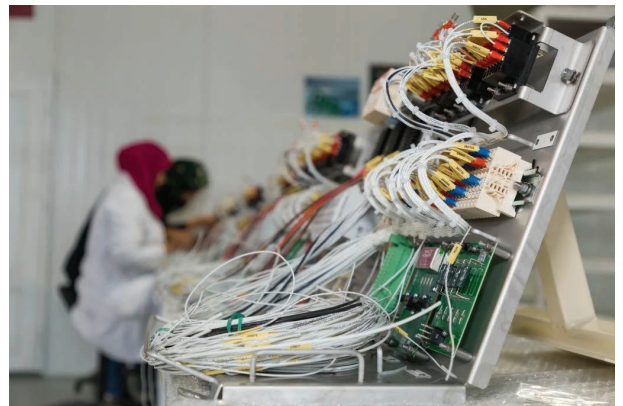
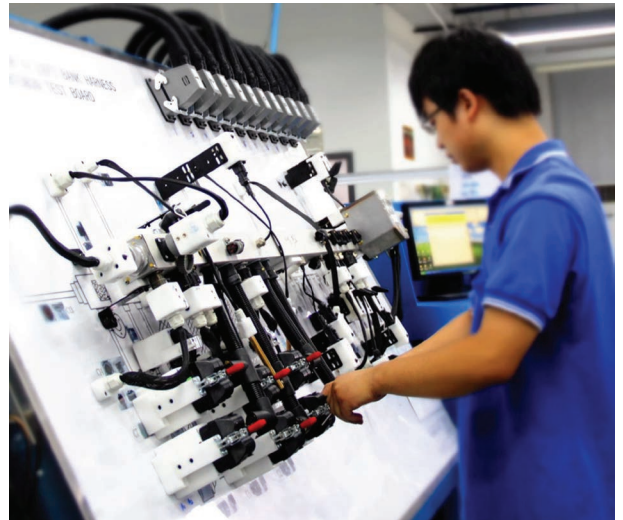
- » 方管 Rigid pipe
- » 编织 Braided
- » 热缩管 Heat shrinkable
- » 波纹管 Conduit

可定制化安装解决方案用于复杂电路设计、拼接、屏蔽和 CAN 网络方面

Bespoke mounting solutions for complex circuit design, splicing, shielding and CAN networks

拥有超过 60 年的经验在恶劣环境中应用，如：高腐蚀性、高湿度、高尘暴、强震动、强电磁干扰、超低温等，并得到了全球化合作商的认可

With more than 60 years of application experience in harsh environments, For example: high corrosion, high humidity, high dust storm, strong vibration, strong electromagnetic interference, extremely low temperature, etc. and recognized by global partners



刚性方管布线系统

Rigid Pipe Wiring System

- » 采用铝合金管材，内部充满泡沫，有着良好的密封性能和绝缘性
- » 方管设计美观整洁，并降低了安装成本与时间，便于各路分支线束集成
- » 内部接线根据每个应用单独设计，大约每隔 1.5 米安装有一个支架
- » 电气连接可以设计成客户专用或国际标准连接器
- » 确保关键线路在任何恶劣环境下使用
- » 消除了连接时传感器反转的可能性



- » Adopts aluminum alloy pipes, full of froth, has good sealing performance and insulation.
- » The rigid pipe design is beautiful and tidy, reduces installation costs and time, east to integration of various branch wiring harnesses
- » Internal wiring is individually designed for each application, with a bracket installed approximately every 1.5 meters
- » Electrical connections can be designed as customer-specific or international standard connectors
- » Can ensure that critical circuits are used in any harsh environment
- » Eliminates the possibility of sensor reversal during connection

技术参数 | Technical Parameter

最低工作温度 Operating Temp Min	-40℃	重量 Weight	3.2kg/m
最高工作温度 Operating Temp Max	125℃	长度 Length	Max 6m
宽度 Width	60mm×60mm, 30mm×30mm, 50mm×50mm, 60mm×80mm, 90mm×90mm	防尘防水等级 Ingress Protection Grade	IP54 or 64

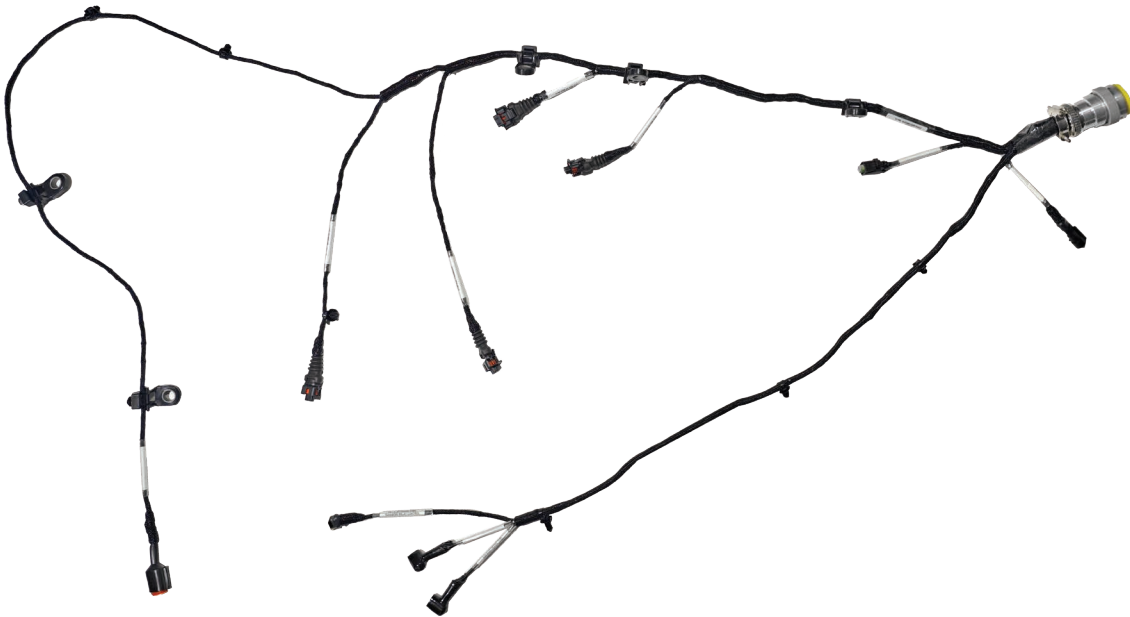
柔性布线系统

Flexible Wiring System

- » 外部保护结构与内部线路一体化结构为了确保关键线路在任何恶劣环境下使用，如：耐震，耐磨，耐高温等
- » 工业化的简易组装接插件保证了快速安装，同时减少了产品生产时间
- » 用于各行业上测量信号传输的经济化的配线方案
- » 多样化的功能：遥测，延伸或补偿
- » 适配所有型号的导体，连接器可选



- » The external protection structure is integrated with the internal line to ensure that the critical line is used in any harsh environment, for example : anti seismic, wear-resistant, high-temperature resistant , etc.
- » Industrial easy assembly plug and play harnesses allowing fast fitting and reduced production tack times to increase capacity.
- » Economical wiring solution for measuring signal transmission in various industries
- » Various functions: telemetry, extension or compensation
- » Suitable for all types of conductors, connector optional

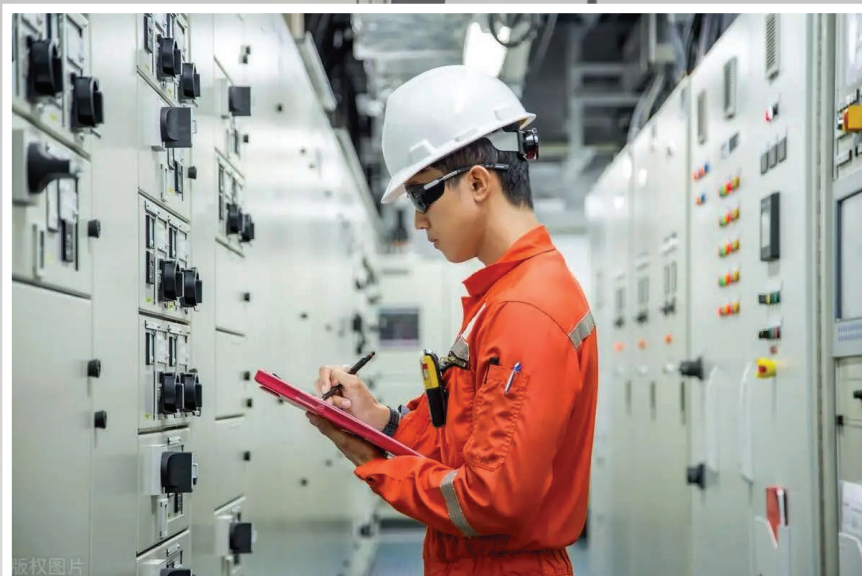


控制柜

Control Panel

广泛应用于工业设备配套、发动机、发电机组、发电厂、海洋船舶、离岸、可再生能源等领域。

Application in : equipment matching, engine , generator set, generating plant , marine, offshore and renewable energy etc.



该系列为可定制化产品，最终解释权归 CMR 品牌

请联系销售以获取更多信息

This part is a customized product, the final interpretation right belongs to CMR

Please contact sales for more information.

控制柜

Control Panel

针对各行业提出专业定制化安装解决方案

Propose Professional Customized Installation Solutions for Various Industries



控制柜 / 箱体解决方案

Control Panel / Box Solution

» 监视与控制

» 工业设施

» 使用于高危区域

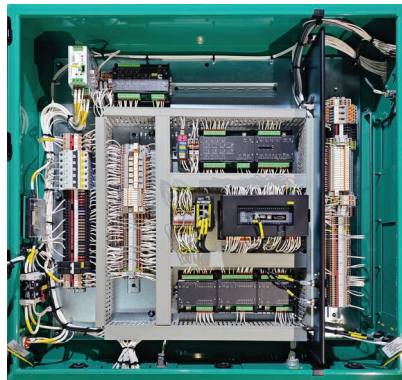
» 特殊应用，如：具有高腐蚀性的海洋环境，高电磁干扰环境等

Monitoring & Control

Industrial facilities

Suitable for high-risk areas

Special applications, for example: high corrosive marine environment, high electromagnetic interference environment, etc.





AVANT PROJET

Consulting
Research
Suggestions and Diagnosis



ACHIEVE

Technical support and project monitoring
Design, manufacture, and installation
Training



PROMOTION

Professional after-sales service
Maintenance contract
Prediction and web Services

- » 超越您的期望
- » 为您提供不断持续改进和随时开放沟通的优势
- » 为您提供“我能做到！”过程导向方法
- » 关心所有人，以尊严和尊重对待每一个人
- » 通过全球响应解决您提出的挑战
- » Exceeding your expectations
- » Delivering you the benefits of continuous improvement & open communication
- » Serving you with a 'Can Do!' process-led approach
- » Caring for all people, treating everyone with dignity and respect
- » Solving your challenges through a global response

Engineered to Uncompromising Standards . *Yours*





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EXPERIENCE**



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THE WORLD**



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