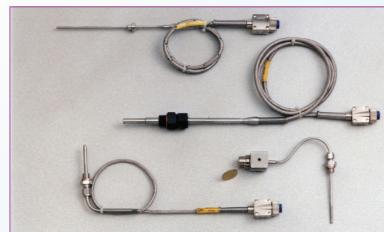


Temperature Sensors

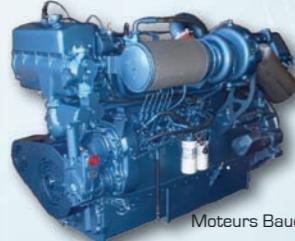
Temperature of engine exhaust and turbo compressor

MD/MC series

Thermocouple sensors for exhaust and turbo compressors, diesel and gas engines



- Wide variety of shapes [advice available from CMR engineers]
- Sturdiness and reliability demonstrated by numerous years of use
- Adapted fittings to avoid waste of time or errors in electric connections



MPTE series

Pt100 probe sensors for engine exhausts



- Special Pt 100 sensing element for resistance to high temperatures [exhaust gases] and vibrations
- Precision measuring
- Economical since not requiring the use of a compensation cable [unlike the thermocouple sensors]

CMR Group offers :

- A know-how based on over 40 years experience in the development and production of measuring systems, tested and referenced by the biggest engine manufacturers.
- A complete control of the measuring channel by a recognized specialist, from the simple sensor to the complete supervision.
- A guarantee of quality and reliability backed up by the ISO 9001 certification.
- A range of products approved by the main classification societies.
- The possibility of developments made to order for all your applications.
- The assurance of logistics and services available world wide thanks to an international presence.

C·M·R
G R O U P

Engineered to uncompromising standards. Yours.

www.cmr-group.com

CONTRÔLE MESURE REGULATION - 7 Rue John Maynard Keynes -

BP 85 -13381 Marseille Cedex 13 - France -

Tel : 33 (0)4 91 11 37 00 - Fax: 33 (0)4 91 11 37 02 - Email : cmr-fr@cmr-group.com

ISO 9001
CE
CERTIFIED

C·M·R
G R O U P

Engineered to uncompromising standards. Yours.

www.cmr-group.com

CONTRÔLE MESURE REGULATION - 7 Rue John Maynard Keynes -

BP 85 -13381 Marseille Cedex 13 - France -

Tel : 33 (0)4 91 11 37 00 - Fax : 33 (0)4 91 11 37 02 - Email : cmr-fr@cmr-group.com

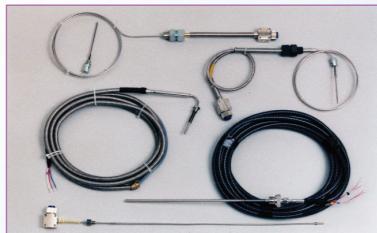
Temperature Sensors



Temperature Sensors

Temperature of rotary machine bearings

MP series



Standard sensors, custom made

- Definition of shapes and technologies adapted to each application by the CMR engineering department
- Low response time.

BCI6, BS6 types

Sensors for alternator, reducer, steam and gas turbine bearings and other rotary machine bearings



- High performance connector
- Spring system providing optimum contact
- Possibility of fiberglass plunger for a galvanic insulation between the body of the sensor and the alternator
- Metallic tip for minimum response time.

AD3 type

Sensors for hazardous areas



- Explosion proof head LCIE approved.

Temperature of engine bearings

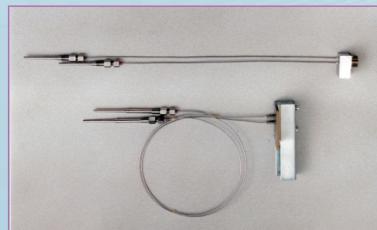
MP series



- Wide variety of shapes (advice available from CMR engineers)
- Sturdiness and reliability demonstrated by numerous years of use
- Adapted fittings to avoid waste of time or errors in electric connections
- Low response time
- Miniaturization.

Temperature of diesel and gas engine valves

MTS series



- Measuring at one or two points on the valve seat
- Miniaturization of the sensing element for optimum response time
- Example of specific product development available on request.

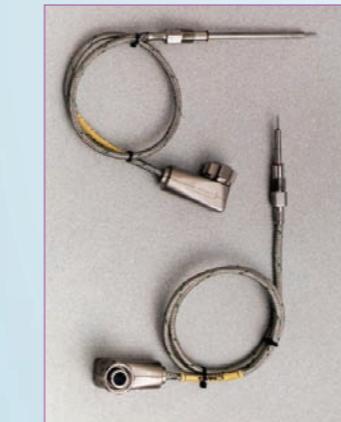


Temperature Sensors

Temperature of engine cylinders

MTC series

Temperature sensors for combustion chambers



- Wide variety of shapes (advice available from CMR engineers)
- Sturdiness and reliability demonstrated by numerous years of use
- Adapted fittings to avoid waste of time or errors in electric connections
- High performance resistance and response time for use with gas engines
- Low diameter (1.5 mm) sensing element for detecting misfire and consecutive risk of explosion linked to the expulsion of unburned gas in hot exhausts.

These sensors are an important factor in the security of engines and men

MTCH series

Temperature sensors for cylinder liners



- Measuring at several points
- Miniaturization of the sensing element for optimum response time
- Example of specific product development available on request.

Temperature of diesel and gas engine fluids

MBT series



- Wide variety of shapes (advice available from CMR engineers)
- Sturdiness and reliability demonstrated by numerous years of use
- Adapted fittings to avoid waste of time or errors in electric connections
- Low response time.