



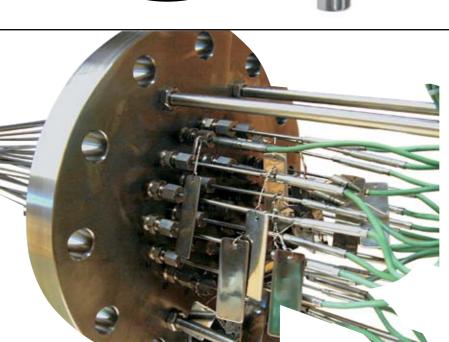


### Multipoint

Multipoint sensors measure temperature at different points in a vessel. They provide an ideal temperature profile for reactors, crackers and tanks. They are custom designed to fit your application and offer the most efficient cost, maintenance, and

data acquisition solution. With a single pipe penetration, it enables several points to be read for a complete temperature profile and is constructed to withstand high temperatures and pressures simultaneously. The assemblies can be of any length.

With more than 60 years' experience in temperature measurement instruments and, specifically, in multipoint sensors, RÜEGER has dedicated a sensor engineering team to diversify its product range through constant research and development.





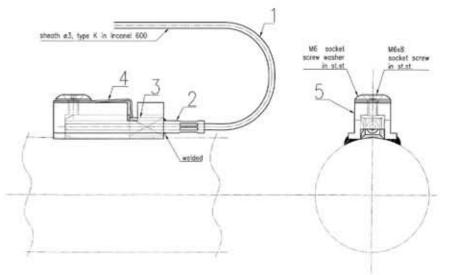
#### Skin

Skin sensors are designed to measure temperature on pipes, inside or outside vessels, reactors, walls and on other flat surfaces.

RÜEGER has taken skin thermocouple design to the next level. We provide advanced technical solutions with an optimized contact between the sensor and the surface to measure, producing the best response time.

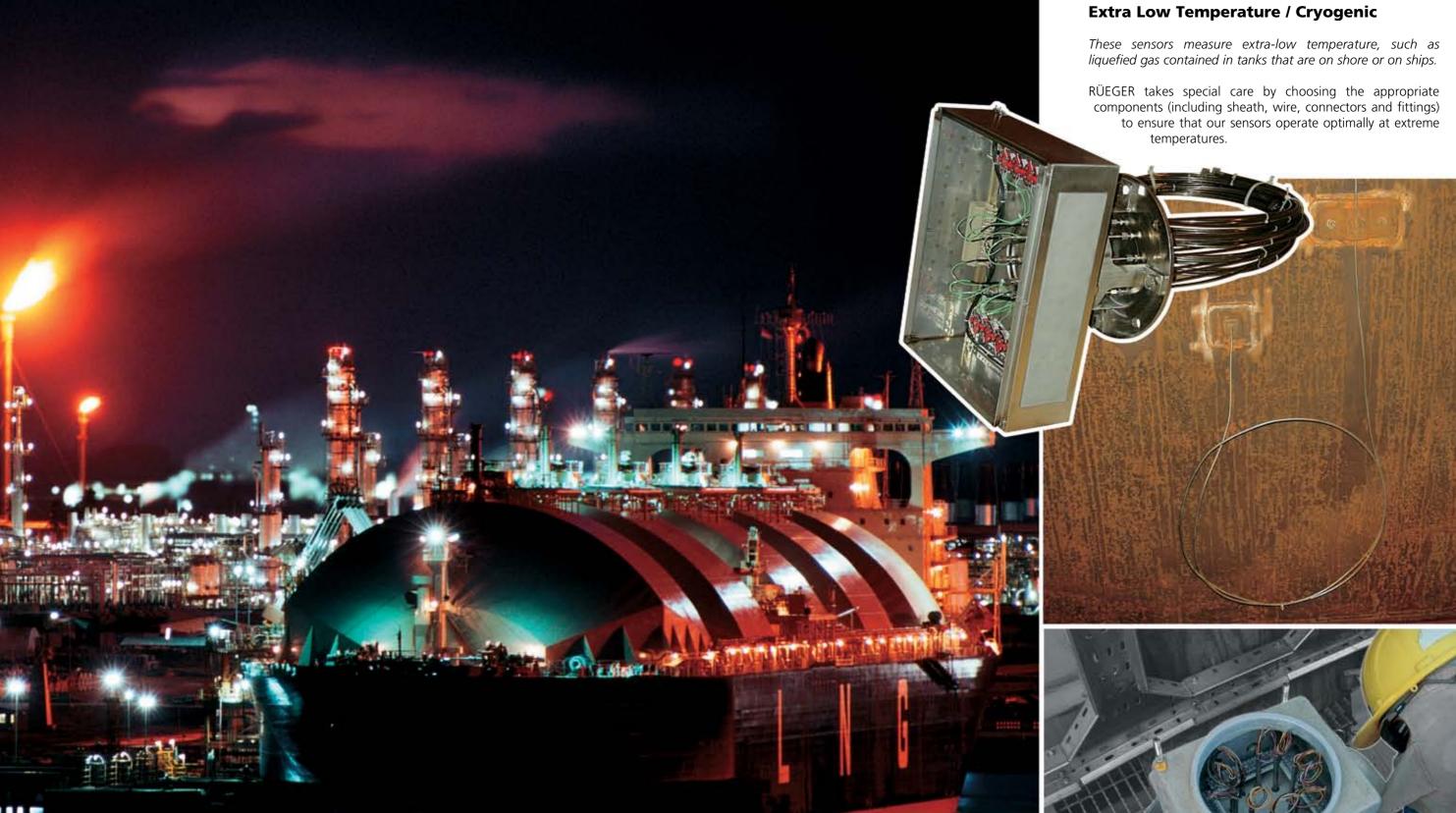


RÜEGER has developed a unique interchangeable skin sensor that makes it possible to replace the sensor easily, thereby reducing maintenance and construction costs and doing away with the need for pipe drilling and thermowell assembly.



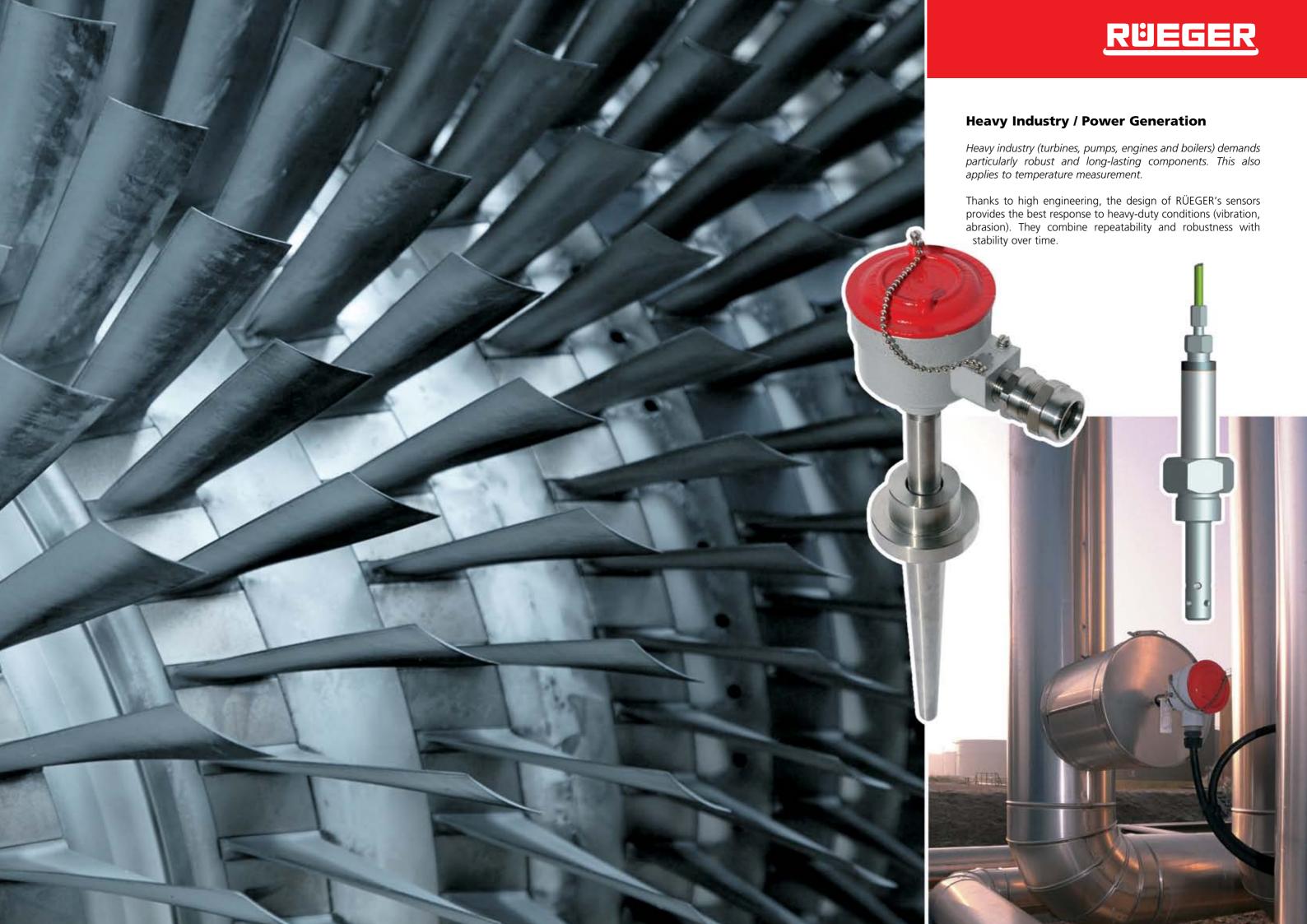
















### **Retractable Temperature Sensors**

Depending on applications, pipelines may need to be cleaned and inspected. Special tools are required, such as a pigging system. During these operations, the full section of the pipe must be clear, so thermowells and standard temperature sensors may not be used. Retractable Temperature Sensors meet this technical challenge.

RÜEGER, a permanent solution provider, has developed a reliable kit that makes it possible.





# RUEGER



Temperature measurement is the most important variable for many

Each field has its specifics, which take into consideration:

- Mechanical conditions
- Chemical conditions
- Particular rules, norms and regulations

Our success in temperature measurement is based on 65 years of experience and continuous growth in this field.

For detailed information, please email your request to info@rueger.ch

### **Our Reference list**

ABU DHABI OIL REFINING COMPANY ADCO - ABU DHABI CO. FOR ONSHORE OIL OP ALSTOM POWER ALUAR – ALUMINIO ARGENTINA BANAGAS – BAHRAIN NATIONAL GAS CO. BASELL POLYOLEFINE GMBH

BP CHEMICALS BURCKHARDT COMPRESSION

BURGMANN INDUSTRIES GMBH

CNOOC - CHINA NATIONAL OFFSHORE OIL CORP. CTCI CORPORATION

FPCC - FORMOSA PLASTICS CHEMICALS CO.

GAS NATURAL SPAIN GAZ DE FRANCE

GAZKOMPLEKTEMPEX – NOVY URENGOY

HAMWORTHY COMBUSTION HELLENIC PETROLEUM – ASPROPYRGOS

IPCL - INDIAN PETROCHEMICALS CORP. LTD JORDAN PETROLEUM REFINERY

JSC SLAVNEFT – YAROSLAVNEFTEORGSINTEZ KNPC – KUWAIT NATIONAL PETROLEUM CO. LEBEDINSKI MINING

LOTOS GROUP

MIRO - MINERALÖLRAFFINERIE OBERRHEIN MOBIL OIL

NIGC - NATIONAL IRANIAN GAS COMPANY

NIOE&C - NATIONAL IRANIAN OIL ENGINEERING &

OMAN GAS CO.

OMV – ÖSTERREICHISCHE MINERALÖLVERWALTUNG

PGI - SIEMENS POWER GENERATION INDUSTR. APPL.

PHILLIPS PETROLEUM

PKN ORLEN

QAFAC – QATAR FUEL ADDITIVES CO. QAPCO – QATAR PETROLEUM CO.

QATARGAS – QATAR LIQUEFIED GAS CO.

RASGAS — RAS LAFFAN LIQUEFIED NATURAL GAS CO.

SABIC - SAUDI BASIC INDUSTRIES CORPORATION

SAUDI ELECTRICITY COMPANY

SHANGHAI SECCO PETROCHEMICAL

SIAM MITSUI PTA CO. LTD

SINOPEC

SIUCI - SOHAR INT. UREA & CHEMICAL INDUSTRIES

SRC - SINGAPORE REFINING CO.

THAI OIL

TITAN POLYETHYLENE SDN BHD

TUPRAS REFINERY



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