

GM INSTRUMENTATION

gm
25 YEARS

**Marine
Instrumentation**

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TEL: 01942 674 747 | www.gminstrumentation.co.uk

Please visit our website for a full range of fluid power and pneumatic accessories

www.gminstrumentation.co.uk

E-mail: sales@gminstrumentation.co.uk



GM Instrumentation

Telephone: 01942 674 747

Fax: 01942 677 272



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GMI can save you money without compromising on quality.



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We supply all types of gauges

- ▣ Vacuum
- ▣ Compound
- ▣ Pressure
- ▣ Digital
- ▣ Refrigerant
- ▣ Tank Contents
- ▣ Chemical Seal
- ▣ Electrical Contact
- ▣ Differential
- ▣ Subsea
- ▣ Absolute
- ▣ Safety Pattern



PressureGauges

We stock a full range of general purpose and heavy duty pressure gauges in all kinds of mounting configurations, dial sizes and process connections.

To enable us to quote please advise:

- ❑ Dial size
- ❑ Bottom or back entry
- ❑ Connection size
- ❑ Direct, back flange, front flange or clamp fix
- ❑ Operating pressure
- ❑ Operating temperature
- ❑ Medium being measured
- ❑ Case material
- ❑ Wetted parts material
- ❑ Glycerine filled or dry
- ❑ Location of gauge
- ❑ Full scale range



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Pressure Transmitters

We can supply a comprehensive range of pressure and temperature transmitters

To enable us to quote please advise:

- ❑ Power supply
- ❑ Out put
- ❑ Process connection
- ❑ Wetted parts
- ❑ Process temperature
- ❑ Pressure range



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Temperature Gauges

We supply a full range of general purpose and heavy duty temperature gauges in all kinds of mounting configurations, stem lengths, diameters and thread sizes.

To enable us to quote please advise:

- ❑ Dial size
- ❑ Bottom or back entry
- ❑ Direct, back flange, front flange or clamp fix
- ❑ Stem length
- ❑ Stem diameter
- ❑ Capillary length
- ❑ Capillary material
- ❑ Process connection
- ❑ Operating pressure
- ❑ Bi Metal or gas actuated
- ❑ Case material
- ❑ Stem Material
- ❑ Dry or glycerine filled

We are also able to supply a full range of SIKA flow and float switches along with temperature calibration equipment.










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THERMOCOUPLE INFORMATION

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T/C TYPE	CONDUCTOR		T/C JUNCTION CONTINUOUS TEMPERATURE RANGE °C							CABLE CODE
	+	-		INTERNATIONAL IEC 584-2:1989 BS 4377 P030-1993	(FORMER) UNITED KINGDOM BS 1963:1992	FRANCE NFE-18001	GERMANY DIN43714	JAPAN JIS C 1610-1981	USA ANSI/MC 98.1	
B	PT-30Rh	PT-6Rh	+100 to +1600							BX
E	Ni-Cr	Cu-Ni Constantan	0 to +800							EX
J	Fe	Cu-Ni Constantan	+20 to +700							JX
K	Ni-Cr	Ni-Al	0 to +1100							KX
N	Ni-Cr-Si Nirosil	Ni-Si-Mg Nisil	0 to +1100							NX NC
R	PT-13Rh	Pt	0 to +1600							RCA
S	PT-10Rh	Pt	0 to +1550							SCA
T	Cu	Cu-Ni Constantan	-185 to +300							TX
U	Cu	Cu-Ni Constantan	Compensating Cable for Types R and S 0 to +50							RCA SCA
V_X	Cu	Cu-Ni Constantan	Compensating Cable for Type K 0 to +50							KCB
W	W	W-26Re	+20 to +2300		NO STANDARD (USE USA)					
W₃	W-3Re	W-25Re	+20 to +2000		NO STANDARD (USE USA)					
W₅	W-5Re	W-26Re	+20 to +2300		NO STANDARD (USE USA)					
T/C TYPE	CONDUCTOR		T/C JUNCTION CONTINUOUS TEMPERATURE RANGE °C							CABLE CODE

Thermocouples and PT100's

We are able to supply on quick deliveries a full range of PT 100's, Thermocouples, Temperature Transmitters and Associated Accessories.

To enable us to quote please advise:

- ❑ Type required (PT100, Type K, etc.)
- ❑ Materials of construction
- ❑ Overall stem length
- ❑ Stem diameter
- ❑ Connection size
- ❑ Power supply
- ❑ Output signal required
- ❑ Process medium being measured
- ❑ Location of instrument
- ❑ Process temperature
- ❑ Process pressure
- ❑ Range required

Pockets or Thermowells

If thermowells or pockets are required please refer to the questionnaire in the temperature gauge section of the catalogue.



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Thermocouples are available in types, B, E, J, K, N, R, S and T in accordance with IEC584-3 using only Class 1 materials.

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Thermocouples

From a basic bare wire sensor to a more complex Type R assembly (for high temperature applications), GMI Sensors can satisfy all of your requirements.

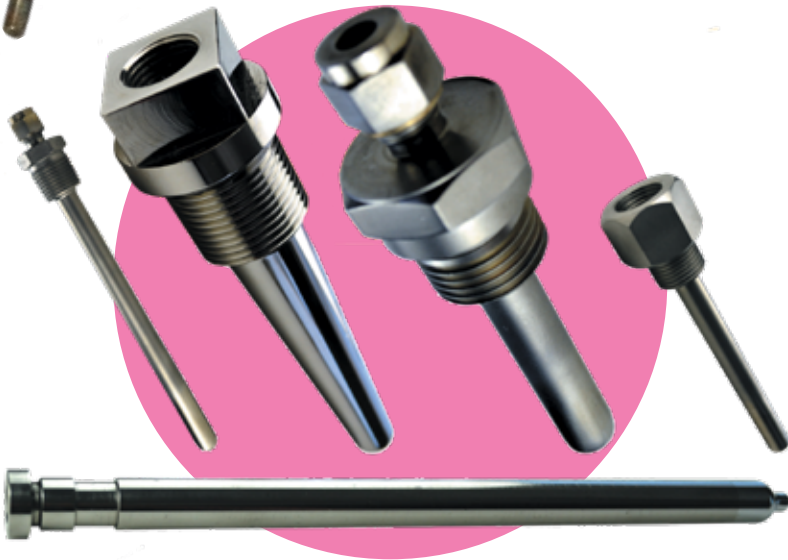
Terminal heads, blocks, cables, connectors and fittings, in varying sizes and materials, are available to supplement our range of thermocouples.





Comprehensive stocks of stainless steel tube, MI cable, terminal heads, blocks, fittings and other accessories are all held to ensure we can meet all specifications.

GMI has the capability to manufacture terminal head assemblies with transmitters suitable for ATEX applications.



POCKETS & THERMOWELLS

GMI manufacture a range of pockets and thermowells, both fabricated and solid drilled. We offer a variety of process connections, including screwed parallel or taper, flanged ANSI or BS EN 1092 for more heavy duty applications, or alternatively we can produce a range of hygienic fittings. Forged and refractory thermowells can be manufactured for high pressure and high temperature applications.



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Exhaust Gas Pyrometers

We stock a full range of pyrometers in a variety of designs and mounting arrangements.

To enable us to quote please advise:

- ❑ Dial size
- ❑ Bottom or back entry
- ❑ Connection size
- ❑ Overall stem length
- ❑ Stem diameter
- ❑ Stem material
- ❑ Spring stem (yes or no)
- ❑ Capillary length
- ❑ Capillary material
- ❑ Back flange, front flange or clamp fix
- ❑ Oil filled case (yes or no)
- ❑ Range

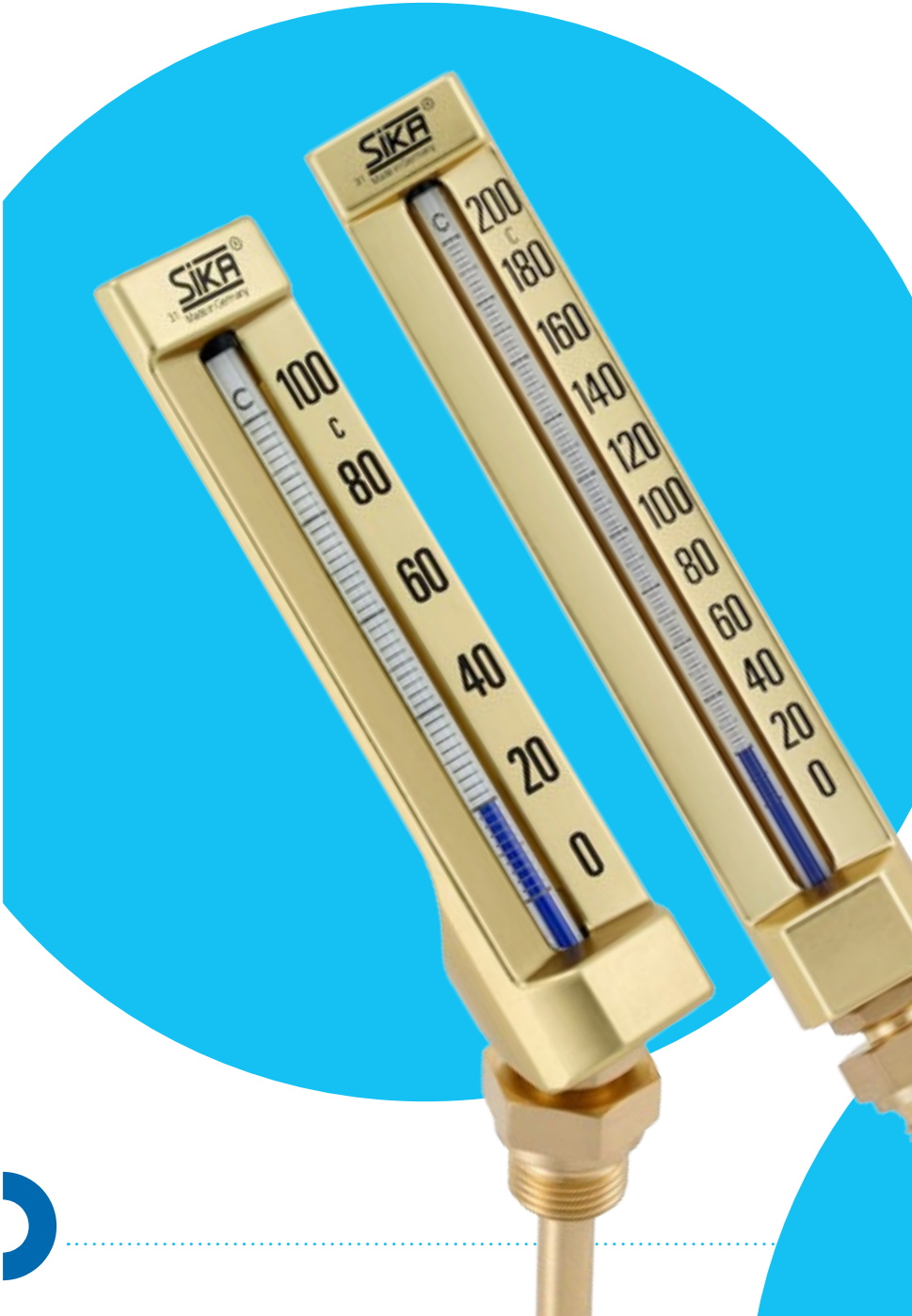
IMPORTANT

Pyrometers should always be used in-conjunction with solid drilled pockets.



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SIKA Thermometers and Inserts

We stock a full range of SIKA instrumentation

To enable us to quote please advise:

- ▣ Straight or angle pattern
- ▣ Case length
- ▣ Immersion length
- ▣ Thermometer or insert
- ▣ Connection size
- ▣ Pocket material
- ▣ Temperature range

We are also able to supply a full range of SIKA flow and float switches along with temperature calibration equipment.



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Magnetic Level Switches

Magnetic Level Switches

SO1DB/F84, SO1DB/F68/4, SO1DB/F93,
SO1DB/F104, SO1DB/F21/1, S36DA/F84,
S250DA/F84, SMA-1, SMA-2, SMB-1

Ultrasonic Level Transducers

MSP900SHA/20, MSP900GHA,
MSP400RH-B28, MSP422-B28

Ultrasonic Fork Level Switches (Squitches)

830SDS00000

Control Boxes

MCU901PX-A,
MCU901WX-A,
MCU201

Vibrating Fork Level Switches (Squings/Mini Squings)

TD1AT1NAA, VT00, VT10, VT03, VT13, VT1F

Ultrasonic Level Switches

003S0, 003S2





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Flow Meters

To enable us to quote please advise:

- ▣ Medium
- ▣ Process pressure
- ▣ Process temperature
- ▣ Flow rate
- ▣ SG of medium
- ▣ Flange to flange dimensions
- ▣ Type of reading - local or retransmitted
- ▣ Max flow rate
- ▣ Min flow rate

Portable & Fixed Gas Detectors

- ▣ Portable gas detection
- ▣ Fixed gas detection
- ▣ Calibration and span gas
- ▣ Detection tubes
- ▣ Full repair & calibration service

Gas detection is vitally important whilst in confined spaces - GMI has the knowledge and expertise to advise.



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Dry Block Temperature Calibrator

Technical specification

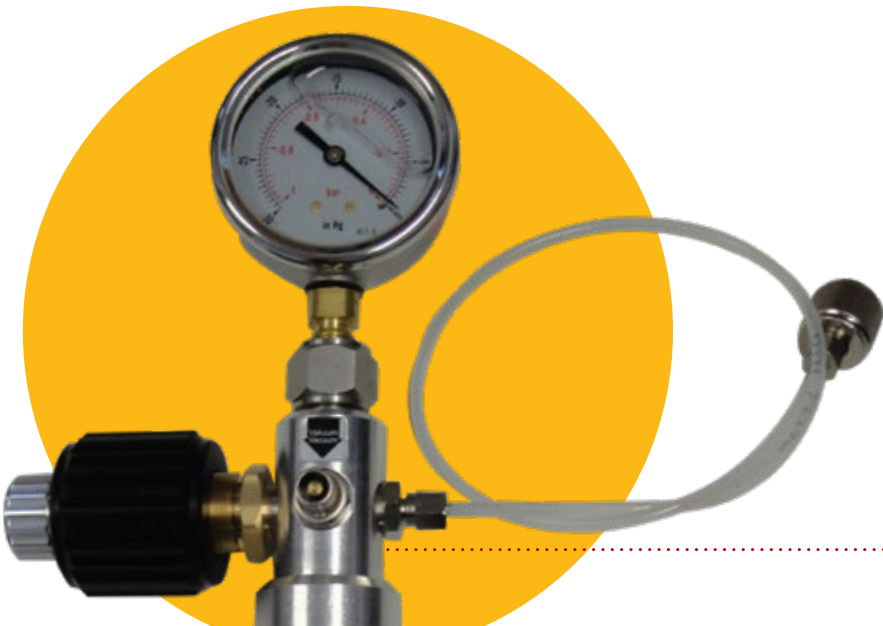
- GMI 0600 series dry block temperature calibrator
- Dry block design
- Stainless steel housing
- Portable and lightweight
- Range: ambient to 600°C
- Supplied complete with carry case, calibration certificate and 1x predrilled insert
- Extra inserts available upon request
- Only 4KG in weight



Portable pneumatic & hydraulic Pressure Calibrators

Technical specification

- ▣ Operating pressure range? -1 / 0 / + 1000 Bar
- ▣ Pressure media? oil/water
- ▣ Fine adjustment resolution: 10 to 100 m bar
- ▣ Reference port pressure correction: . . 3/8" NPT (F)
- ▣ Reference port standard adaptor: . . 3/8" BSP (F)
- ▣ Rest point pressure correction: 1/4" BSP (F)
- ▣ Hose extension: option
- ▣ Weight: 1.6kg



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The portable ultrasonic thickness gauge is used from measuring thickness and corrosion of fire cylinders, ship hulls, bulkheads, pressure vessels, chemical equipment, boilers, oil storage tanks and industrial pipe work amongst others.

Part Number: 2099382, NSN: 5520-99-382-6449

- Simple set-up and ease of operation with digital processing
- Using term reliability and battery life, light weight, compact and reliable
- Accurate measurement in steps of 0.1mm from 1.5mm-99.9mm
- Suited for a wide range of industrial applications

Recommended for

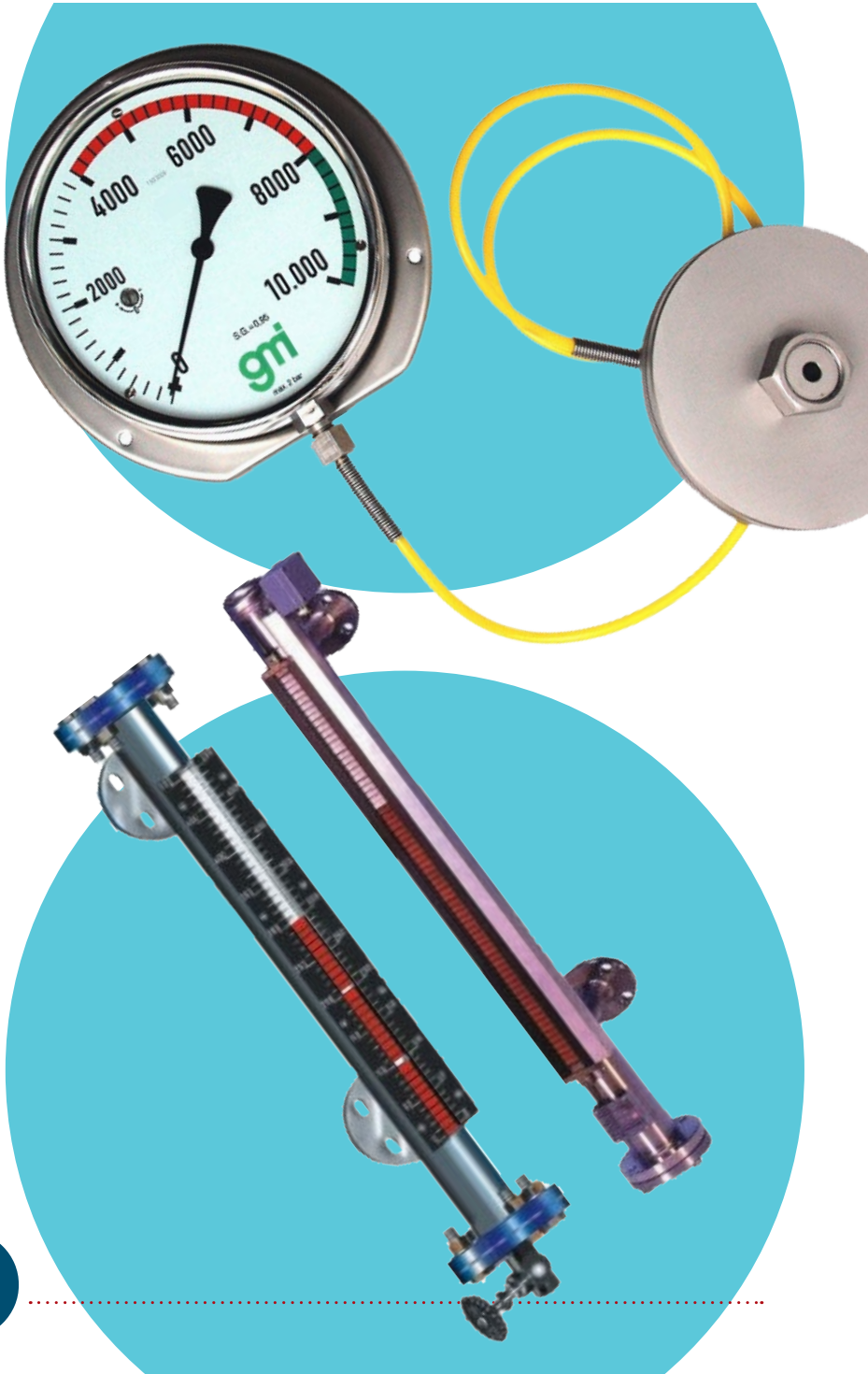
- Steel/Stainless Steel
- Cast Iron
- Aluminium
- Copper
- Brass
- Zinc
- Quartz
- Glass/PVC
- Poleythyience
- Grey Cast Iron



Steel Thickness Measurement



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Tank Contents Gauges

We are able to supply on quick deliveries a full range of tank contents gauges

To enable us to quote please advise:

- ❑ Tank height
- ❑ Nature of contents
- ❑ S.G of contents
- ❑ Connection size and location
- ❑ Capillary length
- ❑ Height difference from connection to gauge face
- ❑ Scale marking required tons, gallons, litres etc.

If the tank is an unusual shape then a graph will be required so as to ensure correct calibration.

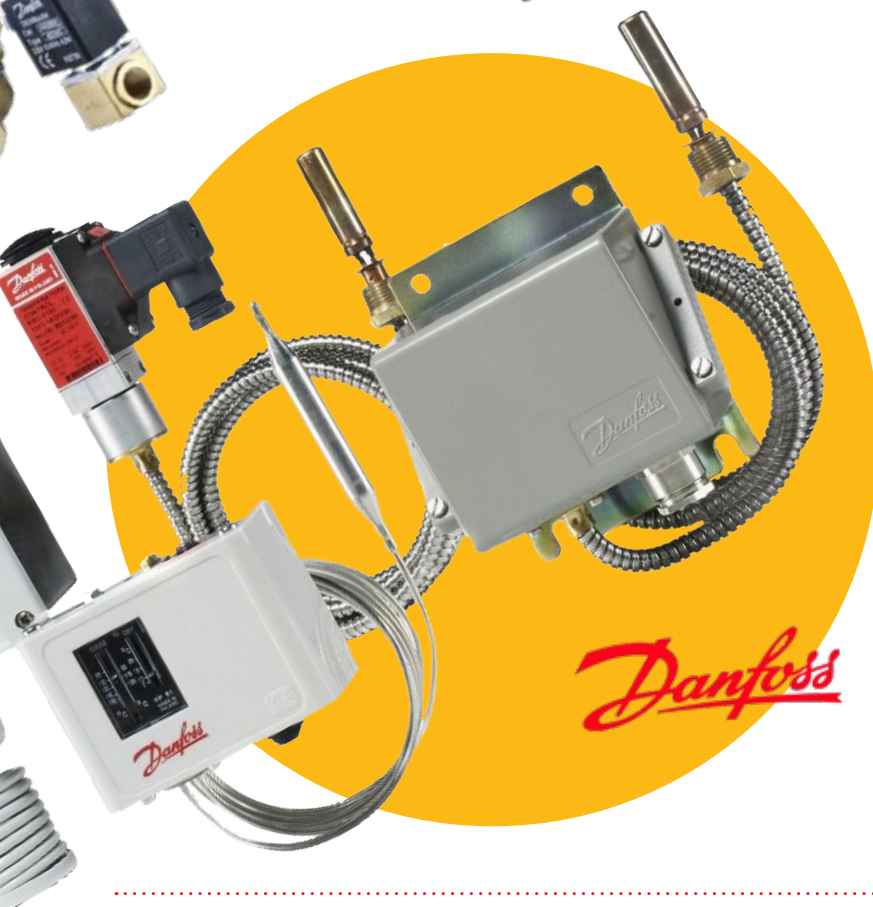


Danfoss

PRODUCT RANGE

- ❑ Solenoid valves
- ❑ Coils for valves
- ❑ Pneumatically operated valves
- ❑ Pressure transmitters
- ❑ Thermostatic valves
- ❑ Electronic pressure switches
- ❑ Pressure switches
- ❑ Pressure switches, differential
- ❑ Temperature sensors
- ❑ Temperature switches
- ❑ Contactors and motor starters
- ❑ Accessories and spare parts





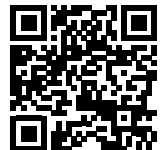
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Recalibration Service

- ▣ Moisture meters
- ▣ Gas detectors
- ▣ Calibrators
- ▣ Master Gauges
- ▣ Reference Thermometers



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Pressure | Temperature
Level | Flow | Calibration
Gas Detection



GM Instrumentation

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