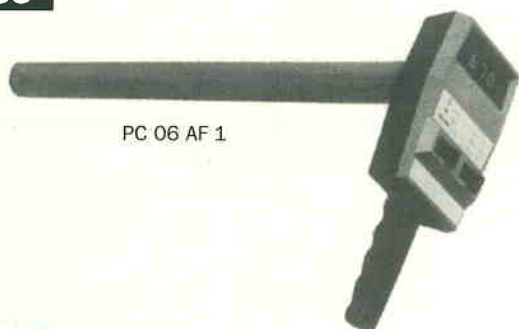


053



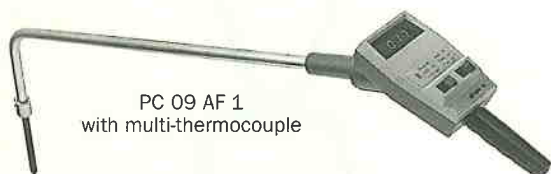
PC 06 AF 1



pipe type thermocouple



fork type thermocouple



PC 09 AF 1
with multi-thermocouple



PC 07 AF 1



immersion-thermocouple

Immersion-type pyrometers 'Gispo-d'

with digital display

Handy, battery-powered temperature indicator with four digits, 7-segment LEDs, height of digits 1.1 mm, easily readable. This instrument can either perform a continuous reading or measurements with storage of the peak value. The electronics, indicators and controls are mounted in a robust cast aluminium housing. Measuring lance and immersion head and the measuring element are easily exchangeable.

1) Type PC 06 AF 1, Item No. 053.001

measuring range up to **1200°C**, response time approx. 10 seconds
pipe length 480 mm

The following thermocouples (NiCr-Ni) are available:

	pipe type thermocouple for copper, brass and bronze melts	fork type thermocouple for lead, tin, zinc and aluminium melts
Length	Item No.	
500 mm	053.101	053.201
750 mm	053.102	053.202
1000 mm	053.103	053.203

Terminals with different diameter to ensure correct polarity.

Recommended immersion depth:

pipe thermocouple 30 cm fork thermocouple 20 cm

2) Type PC 09 AF 1, Item No. 053.002

Measuring range up to **1300°C**, suitable for measuring temperatures of **all non-ferrous metals – with the exception of phosphore bronze**
response time approx. 40 seconds

Total length: 1050 mm angle length: abt. 200 mm

Suitable **multi-thermocouple** (NiCr-Ni) for all non-ferrous metals – with the exception of phosphore bronze.

Length	200	380	610 mm
Item No.	053.301	053.302	053.303

Lead with colour marking to ensure correct polarity.

In order to reduce the measuring time and thus increase the service life of the thermocouple, the thermocouple should be constantly moved through the melt.

To obtain the shortest reaction time, the thermocouple should be immersed 2/3 of its total length in the melt.

Remark:

The service life of the thermocouple can be extended considerably by preheating and coating it.

3) Type PC 07 AF 1, Item No. 053.003

Measuring range up to **1750°C**, suitable for measurements in **cast iron and steel**

response time 4 – 6 seconds

total length: 1050 mm angle length: abt. 200 mm

Other lengths available upon request!

The following **immersion-thermocouples** (Pt 10% Rh/Pt) are available:

Item No.	Type	Use	Length
053.401	M10-200FE	single measurement	200 mm
Design	with steel protective cap and cardboard protective shell		
053.402	MHR10-10-200	for 5 – 8 measurements	200 mm
Design	with 35 mm long bent glass pipe without prot. cap and cardboard prot. shell, protective coating 100 mm long and addl. spatter protector		

Other designs and lengths upon request!

053A



Immersion-type pyrometer 'Portaprobe'

Item No. 053.501

Very reasonable digital immersion-type pyrometer, **measuring up to 1370°C**, for all non-ferrous metals; to be used combined with the multi-thermocouples 053.301 – 053.303 (see above).

Operated by a 9V-transistor battery.

Consists of the thermometer, housed in a high-impact plastic-case, a special handle and the 1.100 mm long chrome-iron protection tube for the thermocouples, angle 45°.