

TEST CERTIFICATE

This instrument has been tested using a calibrated dead weight system.

Type P200:

Serial Number:

This instrument has been tested in:

Tested by:

INPUT	RESULTS

The overall performance of the instrument is obtained by combining the stated accuracy and any uncertainty due to the measurement process.

P200 I.S.
MANOMETER



OPERATING
INSTRUCTIONS



A division of Sifam Instruments Limited
Woodland Road, Torquay,
Devon TQ2 7AY England
Telephone: +44 (0)1803 407693
Fax: +44 (0)1803 407699
Email: info@digitron.co.uk
Website: www.digitron.co.uk



DESCRIPTION

The instrument's window surround shows instrument type, the operating ranges and the category code EExiallCT4. The code indicates the instrument can be used in flammable or explosive atmospheres, up to and including Zone 1.

The rear label also displays the code alongside the European Community mark and ATEX group and category. (See below):

Name and Address of Manufacturer	Sifam Instruments Limited Woodland Road Torquay TQ2 7AY UK
Equipment Name and Type	P200 I.S. Manometer
Certificate Number	Baseefa 03ATEX0599
Specific Marking of explosion protection	EEx ia IIC T4 (-20°C ≤ Ta ≤ +50°C)
ATEX Directive marking	 II 2G
CE Mark with notified body number	
Serial Number	
Year of Manufacture	

BATTERY (not supplied)

Installation

NOTE: BATTERIES MUST NOT BE REMOVED/REPLACED IN A HAZARDOUS AREA.

Detach battery compartment cover from the rear of the instrument by removing the screw with the Allen key and lifting at the appropriate place. Connect one 9V battery PP3 style zinc chloride IEC style 6F22 (type PP3S or equivalent) and lie on the insulation pad. Do not fit under the insulation pad as this could cause battery terminals to short circuit. Refit compartment cover.

NOTE: STANDARD, ALKALINE OR MERCURY BATTERIES MUST NOT BE USED.

When "BAT" shows on display, the battery needs replacing.

INSTRUMENT OPERATION

Operating Temperature (Ambient)

-20°C to +50°C

On - Off

Depress the button marked "●" for instrument ON and "○" for OFF.

Note: The transducer is capable of withstanding the maximum pressure stipulated below. If this pressure is exceeded, damage may result. This is not covered in the warranty.

Resolution

Select either "Lo" or "Hi" resolution as required. (See table below):

Instrument Type	Type	"Lo" Range	"Hi" Range	Maximum Over-Pressure	Zero Adjust
P200UL	Differential	0-19.99mbar	0-100mbar	1000mbar	✓
P200L	Differential	0-199.9mbar	0-500mbar	2000mbar	✓
P200M	Differential	0-199.9mbar	0-1000mbar	2000mbar	✓
P200H	Differential	0-199.9mbar	0-2000mbar	4000mbar	✓
P200AH	Absolute	0-199.9mbarA	0-2000mbarA	4000mbarA	x

Instrument Accuracy

From 20°C to 30°C - 0.1% rdg + 0.1% fs + 1 digit

From -20°C to 50°C - 0.15% rdg + 0.15% fs + 1 digit

Note: Accuracy figures on differential/gauge instruments are only valid for pressure applied to the "+" port. For differential measurements the higher pressure should be applied to the "+" port.

Hose Fitting

The input ports on the instrument are designed to accept a 4mm ID/6mm OD hose. The hose is fitted by unscrewing the clamping nut, sliding the hose on to the stepped shaft and refitting the nut.

Note: Do not tighten fittings attached to the pressure ports to a torque greater than 2Nm, otherwise the pressure seals may be damaged.

Zeroing

In order to achieve maximum accuracy, it is recommended to take the instrument in the orientation it will be used in before taking measurements.

Ensure both ports are open.

To obtain zero on the display, adjust the zero control located on the end of the instrument next to the "+ve" port.

ENVIRONMENTAL SPECIFICATION

IP Rating

This model comes with the IP64 rating as standard to the requirement of BS 5490 : 1977.

EMC

This meter has been designed to operate under intrinsically safe conditions. The necessary protection features employed in the design may result in the meter switching off when subjected to high electrostatic discharge. This is a fail-safe condition and the meter can be switched back on in the normal way.

WARRANTY

This instrument is warranted for 12 months from date of purchase.

During the warranty period any defective instrument will be repaired or replaced at the discretion of the manufacturer. This warranty does not cover damage or failure resulting from misuse or accident.

Modification, adjustment or any alteration shall absolve the manufacturer from any liability in respect of the instrument.

Any instrument to be repaired should be forwarded to the manufacturer at the owner's risk. A brief description of the fault should be included.