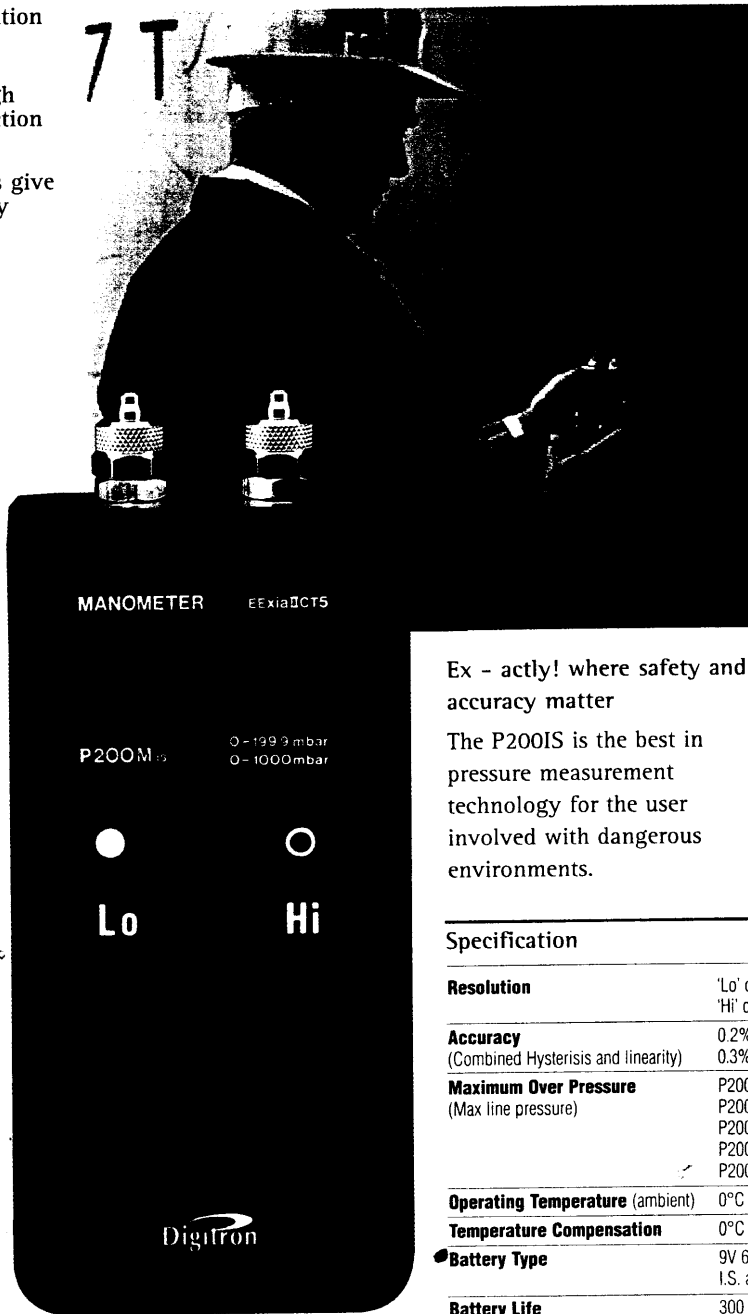
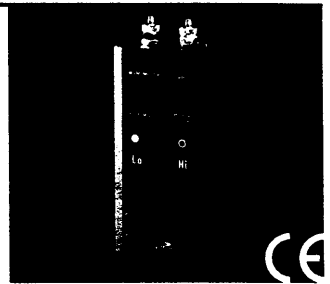


- ◆ Certified to EEx ia IIC T5
- ◆ High accuracy
- ◆ Choice of pressure ranges
- ◆ Robust case
- ◆ Clear, digital display
- ◆ Battery life 300 hours plus
- ◆ Battery low indication
- ◆ Auto-range
- ◆ Case proven! Tough enclosure construction adds to durability
- ◆ Quality electronics give excellent reliability
- ◆ Easy to use

# P200IS

## Intrinsically Safe digital manometers

Six of the Digitron manometer range can be supplied IS certified as individual units or in kits complete with carry case, handpump (generating either 5bar gauge or 750mbar vacuum) and hose. All instruments are certified for use in inflammable or explosive atmospheres up to and including Zone 0.



Certified by BASEEFA, the UK's leading Intrinsic Safety approvals house, the units are classified as EEx ia IIC T5.

This certification is equivalent to EN 50 014 (1977) +A1 to A5, and EN50 020 (1977) +a1 and A2. The units are ready for site use anywhere, immediately.

P200 instruments are suitable for use with non-corrosive, non-ionic liquids and gases. Liquid pressure can be measured using an air buffer.

### Case proven

Their tough construction makes them extremely durable and, therefore, functional in not only a hazardous atmospheres but also rough environments. The rubber boot may be used to enhance the instruments' durability.

Ex - actly! where safety and accuracy matter

The P200IS is the best in pressure measurement technology for the user involved with dangerous environments.

### Specification

<b>Resolution</b>	'Lo' denotes low range/high resolution 'Hi' denotes high range/low resolution
<b>Accuracy</b> (Combined Hysteresis and linearity)	0.2% F.S. (15-25°C / 59°F to 77°F) 0.3% F.S. (0-15°C, 25-50°C / 32°F to 59°F, 77°F to 122°F)
<b>Maximum Over Pressure</b> (Max line pressure)	P200UL.is 1000mbar P200L.is & P200M.is 2000mbar P200H.is 4000mbar P200XH.is 10bar P200AH.is 4000mbar
<b>Operating Temperature</b> (ambient)	0°C to +50°C / +32°F to +122°F
<b>Temperature Compensation</b>	0°C to +50°C / +32°F to +122°F
<b>Battery Type</b>	9V 6F22 (PP3S) or other zinc carbon equivalents with I.S. approval
<b>Battery Life</b>	300 hours +
<b>Display</b>	12.7mm / 0.5" custom LCD with automatic legend display
<b>Low Battery Check</b>	'BAT' shows on display
<b>Environmental Specifications</b>	IP64 Standard
<b>Dimensions</b>	140 x 70 x 26mm / 5.5 x 2.8 x 1.0"
<b>Weight</b>	250g / 8.8oz
<b>Other Features</b>	Zero control. Engineering units show on display (standard calibrations). Connections: Push fit plastic tubing 4mm / 0.157" I.D., 6mm / 0.236" O.D. nominal, retaining nut supplied.

Model	Lo Range	Hi Range
P200UL	0-19.99mbar	0-100mbar
P200L	0-199.9mbar	0-500mbar
P200M	0-199.9mbar	0-1000mbar
P200H	0-199.9mbar	0-2000mbar
P200XH	0-1999.9mbar	0-7bar
P200AH	0-199.9mbar	0-2000mbar absolute

# Digitron. The professional's choice.

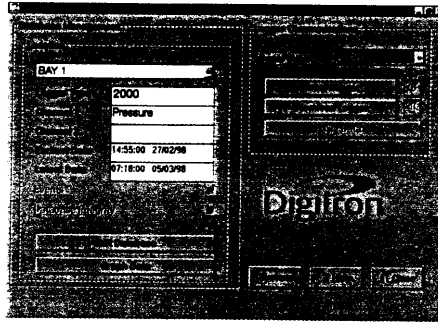
## Data download with DigiLink

Access to stored information is gained via Digitron's infrared DigiLink, which is designed to give users of the 2000 Series a quick and simple means of retrieving and downloading data,

Information can be output direct to either an Epson compatible printer for immediate study, or downloaded to a PC for more detailed analysis.

## Data analysis with DigiLog for Windows™

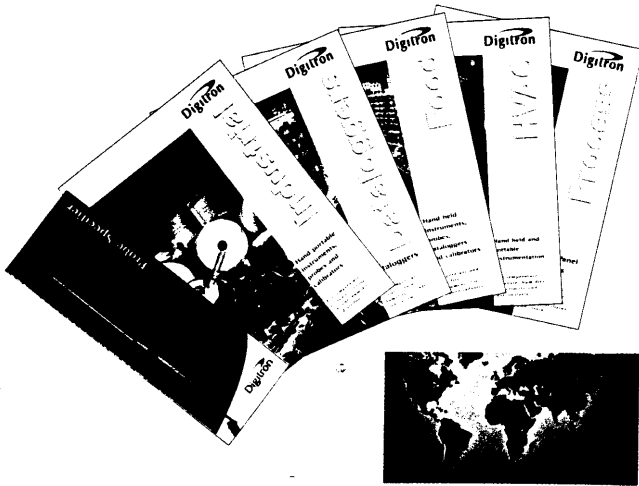
Digitron have created a Windows™ software package, DigiLog, (suitable for all Digitron logging instruments) enabling information to be put into spreadsheets and charts for incorporating into reports and other documents. Even separate reports from different units can be merged to produce one report.



PC analysis really couldn't be any simpler. By following the software's simple menu instructions, you will find it easy to view and manipulate information to your individual requirements. For example, once a logging session is complete, all you need do in order to gain access to information stored within the instrument is position the PC's cursor over the "Retrieve Data" menu icon, click once and press a button on the instrument. Information is then automatically transferred, via the infrared link and stored within the computer.

You may display the retrieved information in graph format by positioning the cursor over the "Display As Graphical Data" menu icon and click again. You can access the graph produced to highlight certain areas or key data points, prior to printing or exporting the graph into other software packages.

Furthermore, all graphs show the identification number of the instrument used, enabling data to be cross-checked against calibration records helping to ensure full traceability.



## Complete logging and measurement solutions

Digitron manufacture a world class range of instruments that measure, monitor and calibrate: pressure, airflow, temperature, humidity, gas emissions, volts, amps and strain. There is a range of catalogues that give the full story - just ask for the one that covers your area of interest, ie Industrial, Food, Environmental, Heating & Ventilation and Process.

Globally, we work in partnership with an ever-increasing variety of customers to protect the public from everyday hazards and improve the environment.

This concern for the environment is continued through to biodegradable packaging. Furthermore, our products are manufactured in plants where the use of ozone depleting substances, such as CFC's, have been eliminated ahead of internationally-set target dates.

All Digitron products are manufactured to the highest quality and carry a minimum of one year's warranty. Our Quality Management System is assessed to ISO 9001 and all products carry the CE mark.

If you require more information on our customer service, please contact Digitron.

# Digitron

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# PRECISE



2000 series  
pressure  
instruments

*Setting new  
standards in  
pressure  
measurement*

# looking

# Pressure meters

A new industrial standard is set!

When it comes to performance under pressure, Digitron's 2000 Series of hand-held digital manometers are in a league of their own! Easy to operate, reliable and built to last, the 2000 Series has been specifically developed in order to meet the performance and cost demands of today's industrial and HVAC professionals.

- ◆ Pressure ranges from 2mbar to 7bar (2" H<sub>2</sub>O to 101.5PSI)
- ◆ Scales in mbar, bar, PSI, inH<sub>2</sub>O, inHg, mmH<sub>2</sub>O, mH<sub>2</sub>O, mm/cm/mHg, Pa and kPa
- ◆ Accurate performance: 0.2% of reading
- ◆ Long battery life: typically 200 hours
- ◆ Automatic zero calibration for added accuracy
- ◆ Logging mode for storage, retrieval and output of readings
- ◆ Autoranging displays for precise readings
- ◆ Selectable auto switch-off
- ◆ 2 year warranty
- ◆ Overrange protection



The 2000 Series of pressure instruments offers the widest range of hand-held manometers in the world. Representing a new standard in pressure measurement, the series features a number of new, innovative functions designed to make the operator's job easier than ever before.

#### Automatic leak testing

The 2000 Series can test for leaks over a variety of applications. Getting started couldn't be easier: simply prime the instrument with the relevant pre-stress pressure level, start pressure, test time, and the allowable pressure change, and you're ready to go!

Once pressure has been applied to the system, the instrument will run the test until the specified time has elapsed. It will then display a pass or fail message and log the results into its memory with a real-time reference.

#### User defined scale

A custom scale can be created by the user by entering a scale percentage, the value of which is multiplied into the current display.

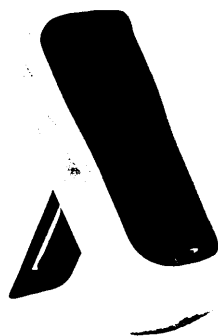
**2083P**

#### Built to last

With its ergonomic design, positive action key pad and magnified display, the 2000 Series is a pleasure to operate. To maximise the instruments' useful life, the series features IP65 or IP67 protection, silicone rubber key pads with hard plastic coated on/off buttons and fully isolated battery compartment.

#### Protective Boot

A high impact protective rubber boot is available to enhance even further the durability of these instruments.



## All models feature:



**Backlight**  
Enables readings to be taken easily in the dark.



**Display hold**  
Freezes the reading.

**Set-up Retention**  
The instrument switches on with the last settings used.

## Other selected models feature:



**Smoothing**  
Averages measurements for a more stable reading.



**Units of pressure**  
For maximum flexibility, choose between 10 units of pressure.



**Range lock**  
Enables the operator to set the instrument to the lower resolution only.



**Max/Min recorder**  
Enables maximum and minimum pressures to be determined as well as current operating pressure. Averaging is also available on some models within this mode.



**Logging on demand**  
Allows readings to be stored as and when required.



**Pre-Set interval logging**  
Allows readings to be stored automatically at a pre-set time interval.



**Stores data**  
Also enables four digit reference number, with decimal point, to be included with date and time stamp.



**User defined scale**  
Allows custom scale setup.

**Zeroing**  
For maximum accuracy, zero the instrument in the reading orientation selected.

**Zeroing absolute**  
The correct local barometric pressure can be keyed into the instrument for zeroing reference.

**Leak testing**  
Enables pressure systems to be automatically tested for leaks

## Common specification

<b>Operating Temperature:</b>	-10°C to +50°C/+14°F to 122°F (ambient)
<b>Battery Type:</b>	Two AA or equivalent cells (not supplied)
<b>Battery Life:</b>	Typically 200 hours
<b>Low Battery Check:</b>	"" symbol appears on display
<b>Display:</b>	12.7mm / 0.5" custom L.C.D.
<b>Overrange/Underrange:</b>	'Out' flashes on display
<b>Environmental Specifications:</b>	IP65 (IP67 optional) with hose connected
<b>Auto Switch-Off Time:</b>	12 minutes
<b>Dimensions:</b>	155 x 67 x 40mm/6.1 x 2.6 x 1.6"
<b>Weight:</b>	180g/6.4oz

## Instrument accuracies

<b>From +20°C to +30°C/+68°F to +86°F:</b>	0.1%rdg +0.1%fs +1 digit
<b>From -10°C to +50°C/+14°F to +122°F:</b>	0.15%rdg +0.15%fs +1 digit

Data collection at the touch of a button

Say goodbye to the clipboard and hours spent keying data into your PC. The 2000 Series' logging functions, on demand or pre-set interval, enable readings to be stored, retrieved and output to a printer or PC, all at the touch of one or two buttons. This enables error-free and fully traceable records to be maintained!

Performance you can rely on

Over 20 years experience, combined with extensive customer research, has given Digitron a thorough understanding of industrial applications and enabled us to design instruments that meet real needs. As the 2000 Series are probably the fastest, most accurate hand-held manometers available, we are sure there is a model to suit you and your business requirements.

2000P Series option table

	2000P	2001P	2002P	2003P	2004P	2005P	2020P	2021P	2022P	2023P	2024P	2025P	2080P	2081P	2082P	2083P	2084P	2085P
<b>Operating Range:</b>	25mbar	130mbar	2bar	7bar	External transducer	2bar absolute	25mbar	130mbar	2bar	7bar	External transducer	2bar absolute	25mbar	130mbar	2bar	7bar	External transducer	2bar absolute
<b>Overrange:</b>	350mbar	750mbar	4bar	10bar	*	4bar absolute	350mbar	750mbar	4bar	10bar	*	4bar absolute	350mbar	750mbar	4bar	10bar	*	4bar absolute
<b>Backlight:</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Out of range:</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Zeroing:</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Hold:</b>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Smoothing:</b>							●	●	●	●	●	●	●	●	●	●	●	●
<b>Units of Pressure:</b>							●	●	●	●	●	●	●	●	●	●	●	●
<b>Range Lock:</b>							●	●	●	●	●	●	●	●	●	●	●	●
<b>Max/Min:</b>							●	●	●	●	●	●	●	●	●	●	●	●
<b>Zeroing Absolute:</b>						●						●						●
<b>Averaging:</b>													●	●	●	●	●	●
<b>Leak Testing:</b>													●	●	●	●	●	●
<b>Logging:</b>													●	●	●	●	●	●

\* Depends on external pressure transducer.

## Taking the pressure out of data collection and analysis

The 2000 Series models 2080P, 2081P, 2082P, 2083P, 2084P and 2085P feature special logging functions that enable readings to be taken, stored, retrieved and downloaded in the shortest possible time. This reduces the risk of clerical errors and saves writing and keying-in time when analysis is needed.

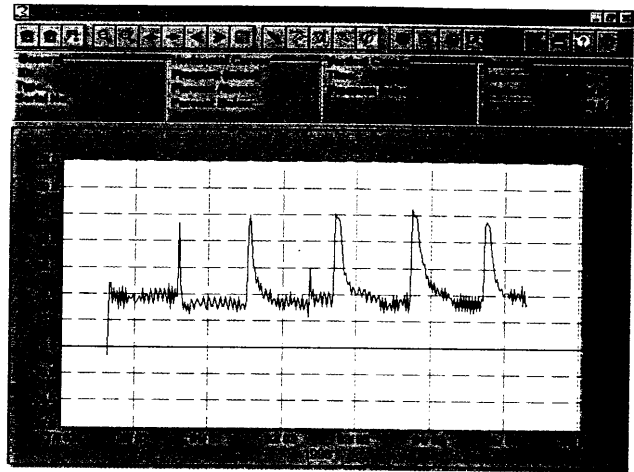
### Logging on Demand

Logging On Demand allows readings to be stored when required, with the ability to add a four digit reference number (including decimal point) to each reading, and record the date and time each reading is taken. This function is excellent for helping you cut down on paperwork and clerical errors. It is ideally suited to tasks where you wish to maintain a record of the time and date when a pressure was taken.

### Data Analysis

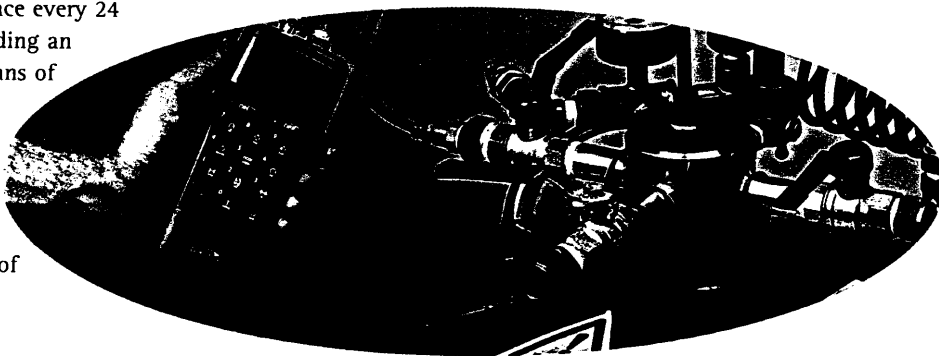
Data can be viewed and analysed direct from the magnified display. By simply pressing a few keys you can scroll through your readings with ease.

You may then download the data to a PC or Epson compatible printer via Digitron's DigiLink (see over for further details). Data can then be analysed using our DigiLog Windows™ software.

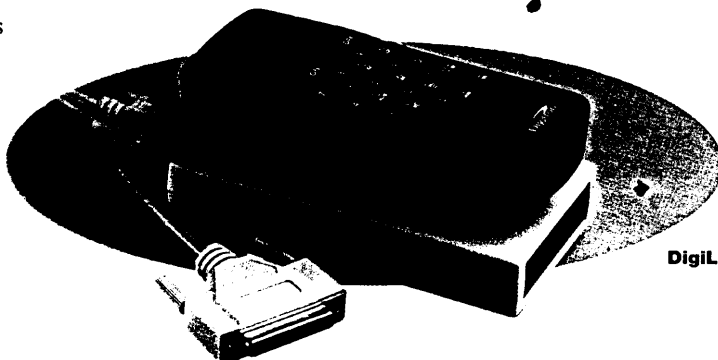


### Preset Interval Logging

Preset Interval Logging lets you determine the frequency at which readings are taken. Once the instrument has been set, readings are taken automatically at the interval you decide (from once every minute, to once every 24 hours), providing an excellent means of trouble-shooting and examining trends over a given period of time.



With Preset Interval Logging, you really can "set it, forget it", as the instrument will continue logging until a maximum of 250 readings are taken or your data is downloaded.



DigiLink