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## COLEY INSTRUMENTS

- **Manufacturers of high quality Pressure & Temperature Gauges for the HVAC industry.**
- **Matching products complying with M & E 3, M & E 6, M & E 100, EN 837 and EN 13190.**
- **Approved to ISO 9001:2008.**
- **Large stock range of instruments and accessories offering immediate delivery to anywhere in the UK.**
- **Range includes:-**
  - MIS Thermometers**
  - Gas Filled Thermometers**
  - Bimetal Thermometers**
  - Pressure Gauges**
  - Altitude Gauges**
  - Test Gauges**
  - Cocks/Syphons**
  - Test Plugs**

**"Call us now for a fast & efficient response"**

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**Stewart-Buchanan Gauges Ltd**



## PRESSURE / ALTITUDE GAUGES

100mm and 150mm Dial Sizes.  
 Black Case, Chrome Bezel as standard.  
 Stainless steel weatherproof case for external mounting  
 {Optional Glycerine filling for condensation}  
 Matching in appearance to our range of Thermometers.

3/8" BSP Bottom Connection  
 Loose Red Pointer  
 Accuracy 1%  
 Manufactured to comply with  
 M & E 3, M & E 100 and EN 837.

### Standard Ranges/Part Numbers – Pressure Gauges

Scale Range *	100mm Dial Direct mount	100mm Dial Surface mount	150mm Dial Direct mount	150mm Dial Surface mount
0 / 1 Bar	4106P1	4109P1	6106P1	6109P1
0 / 2 Bar	4106P2	4109P2	6106P2	6109P2
0 / 4 Bar	4106P3	4109P3	6106P3	6109P3
0 / 6 Bar	4106P4	4109P4	6106P4	6109P4
0 / 10 Bar	4106P5	4109P5	6106P5	6109P5
0 / 14 Bar	4106P6	4109P6	6106P6	6109P6
0 / 20 Bar	4106P7	4109P7	6106P7	6109P7

\*Also available in Dual Scale

For weatherproof case add "-SS" to Part Number i.e."4106P1-SS"

### Standard Ranges/Part Numbers – Altitude Gauges

Scale Range*	100mm Dial Direct mount	100mm Dial Surface mount	150mm Dial Direct mount	150mm Dial Surface mount
0 / 1 Bar + Metres HD	4106A1	4109A1	6016A1	6109A1
0 / 1.6Bar + Metres HD	4106A2	4109A2	6016A2	6109A2
0 / 2.5Bar + Metres HD	4106A3	4109A3	6016A3	6109A3
0 / 4 Bar + Metres HD	4106A4	4109A4	6106A4	6109A4
0 / 6 Bar + Metres HD	4106A5	4109A5	6106A5	6109A5
0 / 10Bar + Metres HD	4106A6	4109A6	6106A6	6109A6

\*Also available in KPA or KnM2

For weatherproof case add "-SS" to Part Number i.e. "4106P1-SS"

## Notes

### Steam & Gases

For pressure ranges 25Bar & above, Full safety pattern type **must be used**. Details on request.  
 For pressure ranges below 25Bar, Standard gauges must be fitted with a Blow out Device. Please specify.  
 For low pressure Natural Gas, we offer gauges to British Gas INP3 specification. Details on request.

### Working Pressures

Whilst gauges will withstand a full scale pressure, it is recommended that the working pressure should not exceed 75% of the scale range for steady pressures; and 65% of the scale range for fluctuating pressures.

### Operating Temperature

Ambient and fluid temperatures acting upon the gauge should be within the range of -20 / +60 deg. C  
 To protect the gauge from a fluid that is too hot, a syphon or similar device must be installed close to the gauge to provide a condensate fluid in the pressure element.

We manufacture a wide range of instruments for all industries and would be pleased to discuss any special requirements you have.



## MIS THERMOMETERS

100mm and 150mm dial sizes.  
 Black case, Chrome bezel as standard.  
 Stainless steel weatherproof case for external mounting.  
 {Optional glycerine filling for condensation}.  
 Matching in appearance to our range of Pressure Gauges.

1/2" BSP pockets in Brass or Stainless steel.  
 Lagging extension on stem or pocket.  
 Accuracy 1%  
 Manufactured to comply with M & E 3,  
 M & E 100 and EN 13190.

### Standard Ranges/Part Numbers – to suit 2.1/2" pocket

Service	Scale Range	100mm Dial Bottom entry	100mm Dial Back entry	100mm Dial Right entry	100mm Dial Left entry	150mm Dial Bottom entry	150mm Dial Back entry	150mm Dial Right entry	150mm Dial Left entry
LTHW / HTG	0 / 120C	M41062A	M41002A	M4101R2A	M4101L2A	M61062A	M61002A	M6101R2A	M6101L2A
Chilled Water	-20 /+40C	M41062B	M41002B	M4101R2B	M4101L2B	M61062B	M61002B	M6101R2B	M6101L2B
HTHW	0 / 200C	M41062C	M41002C	M4101R2C	M4101L2C	M61062C	M61002C	M6101R2C	M6101L2C
Cond. Water	0 / 60C	M41062D	M41002D	M4101R2D	M4101L2D	M61062D	M61002D	M6101R2D	M6101L2D

"For weatherproof case add "-SS" to Part Number i.e. "M41062A-SS"

### \*Standard Ranges/Part Numbers – to suit 4" pocket

Service	Scale Range	100mm Dial Bottom entry	100mm Dial Back entry	100mm Dial Right entry	100mm Dial Left entry	150mm Dial Bottom entry	150mm Dial Back entry	150mm Dial Right entry	150mm Dial Left entry
LTHW / HTG	0 / 120C	M41064A	M41004A	M4101R4A	M4101L4A	M61064A	M61004A	M6101R4A	M6101L4A
Chilled Water	-20 /+40C	M41064B	M41004B	M4101R4B	M4101L4B	M61064B	M61004B	M6101R4B	M6101L4B
HTHW	0 / 200C	M41064C	M41004C	M4101R4C	M4101L4C	M61064C	M61004C	M6101R4C	M6101L4C
Cond. Water	0 / 60C	M41064D	M41004D	M4101R4D	M4101L4D	M61064D	M61004D	M6101R4D	M6101L4D

\*Also available with Duct mounting flange

"For weatherproof case add "-SS" to Part Number i.e. "M41064A-SS"

## Pockets

All pockets are threaded 1/2" BSP male.  
 All pockets suit the above Thermometers.  
 Extended pockets have 50mm lagging extension. Standard pockets have no lagging extension.  
 Other pocket lengths are available, details on request.  
 Brass pockets are supplied as standard unless otherwise specified.

## Part Numbers

Pocket Material	2 1/2" Standard	2 1/2" Extended	4" Standard	4" Extended
Brass	212B	212BX	412B	412BX
Stainless Steel	212SS	212SSX	412SS	412SSX

## Notes

It is recommended that the maximum working temperature does not exceed 60% of the scale range.  
 Ambient temperatures acting upon the gauge should be within the range of -20 / +60C.  
 It is essential the bulb is not forced against the bottom of the pocket when tightening the nut. This can lead to an increase in pressure within the bulb and cause incorrect readings.  
 Always allow an approximate 5mm gap in the bottom of the pocket before tightening the compression nut.

We manufacture a wide range of instruments for all industries and would be pleased to discuss any special requirements you have.



## GAS FILLED THERMOMETERS

100mm and 150mm Dial sizes.  
 Black case, Chrome bezel as standard.  
 Stainless steel weatherproof case for external mounting.  
 Matching in appearance to our range of Pressure Gauges.

1/2" BSP pockets in Brass or Stainless steel.  
 Lagging extension on stem or pocket.  
 Accuracy 1%  
 Manufactured to comply with M & E 3,  
 M & E 100 and EN 13190.

### Standard Ranges/Part Numbers – to suit 2.1/2" pocket

Service	Scale Range	100mm Dial Bottom entry	100mm Dial Back entry	100mm Dial Right entry	100mm Dial Left entry	150mm Dial Bottom entry	150mm Dial Back entry	150mm Dial Right entry	150mm Dial Left entry
LTHW /HTG	0 / 120C	G41062A	G41002A	G4101R2A	G4101L2A	G61062A	G61002A	G6101R2A	G6101L2A
Ch /Con Wtr	-20 / +60C	G41062B	G41002B	G4101R2B	G4101L2B	G61062B	G61002B	G6101R2B	G6101L2B
HTHW	0 / 200C	G41062C	G41002C	G4101R2C	G4101L2C	G61062C	G61002C	G6101R2C	G6101L2C

\*For weatherproof case add "-SS" to Part Number i.e. "G41062A-SS"

### \*Standard Ranges/Part Numbers – to suit 4" pocket

Service	Scale Range	100mm Dial Bottom entry	100mm Dial Back entry	100mm Dial Right entry	100mm Dial Left entry	150mm Dial Bottom entry	150mm Dial Back entry	150mm Dial Right entry	150mm Dial Left entry
LTHW /HTG	0 / 120C	G41064A	G41004A	G4101R4A	G4101L4A	G61064A	G61004A	G6101R4A	G6101L4A
Ch /Con Wtr	-20 / +60C	G41064B	G41004B	G4101R4B	G4101L4B	G61064B	G61004B	G6101R4B	G6101L4B
HTHW	0 / 200C	G41064C	G41004C	G4101R4C	G4101L4C	G61064C	G61004C	G6101R4C	G6101L4C

\*Also available with Duct mounting flange

\*For weatherproof case add "-SS" to Part Number i.e. "G41064A-SS"

## Pockets

All pockets are threaded 1/2" BSP male.  
 All pockets suit the above Thermometers.  
 Extended pockets have 50mm lagging extension. Standard pockets have no lagging extension.  
 Other pocket lengths are available, details on request.  
 Brass pockets are supplied as standard unless otherwise specified.

### Part Numbers

Pocket Material	2 1/2" Standard	2 1/2" Extended	4" Standard	4" Extended
Brass	212B	212BX	412B	412BX
Stainless Steel	212SS	212SSX	412SS	412SSX

## Notes

It is recommended that the maximum working temperature does not exceed 60% of the scale range.  
 Ambient temperatures acting upon the gauge should be within the range of -20/+60C.  
 It is essential the bulb is not forced against the bottom of the pocket when tightening the nut. This can lead to an increase in pressure within the bulb and cause incorrect readings.  
 Always allow an approximate 5mm gap in the bottom of the pocket before tightening the compression nut.

We manufacture a wide range of instruments for all industries and would be pleased to discuss any special requirements you have.



## BI-METAL THERMOMETERS

100mm and 150mm dial sizes.  
Black case, Chrome bezel as standard

Matching in appearance to our range of Pressure Gauges.  
1/2" BSP pockets in Brass.

### Standard Ranges/Part Numbers – C/W pockets

Service	Scale Range	Pocket Length	100mm Dial Bottom entry	100mm Dial Back entry	150mm Dial Bottom entry	150mm Dial Back entry
LTHW / HTG	0 / 120 C	50mm	B208A42	B209A42	B208A62	B209A62
LTHW / HTG	0 / 120 C	100mm	B208A44	B209A44	B208A64	B209A64
Chilled / Cond.Water	-20 / +60 C	50mm	B208B42	B209B42	B208B62	B209B62
Chilled / Cond.Water	-20 / +60 C	100mm	B208B44	B209B44	B208B64	B209B64

\*100mm Dial also available with Duct mounting flange – Type B210, Back entry with 200mm stem.

### Spare pockets

2" X 1/2" BSP Brass pockets - Type 212BMB  
4" X 1/2" BSP Brass pockets - Type 412BMB

## GAUGE ACCESSORIES

- 3/8" BSP Mild steel 'U' Syphon - Type 38MSU
- 3/8" BSP Mild steel 'Ring' Syphon - Type 38MSR
- 3/8" BSP Brass 'U' Syphon - Type 38BRU
- 3/8" BSP 'Ring' Syphon - Type 38BRR
- 3/8" BSP S/S type 'S' Syphon - Type 38SSS
- 3/8" BSP F/F Brass Gauge Cock - Type 38GC
- 3/8" BSP Brass Snubber - Type 38BS
- 3/8" BSP S/S F/F Needle Valves - Type 38SSNV

### Notes

#### Gauge cocks

Max working pressure is 25 Bar.  
Max working temperature is 60 C.  
For HTHW and Steam applications we recommend type 38SSNV needle valves.

#### Syphons

Max working pressure is 100 Bar.  
Max working temperature is 120 C.  
For HTHW and Steam applications we recommend type 38SSS syphons.



## DISTANT READING THERMOMETERS

Available in Mercury in Steel or Gas Filled.  
 100mm and 150mm dial sizes.  
 Black case, Chrome bezel as standard.  
 Stainless steel weatherproof case for external mounting.  
 Matching in appearance to our range of Pressure Gauges.

1/2" BSP pockets in Brass or Stainless steel.  
 Lagging extension on stem or pocket.  
 Accuracy 1%  
 Manufactured to comply with M & E 3,  
 M & E 100 and EN 13190.

### Standard Ranges/Part Numbers

#### Mercury in Steel – to suit 2.1/2" pocket

Service	Scale Range	100mm Dial Surface mount	100mm Dial Panel mount-screw fix	150mm Dial Surface mount	150mm Dial Panel mount-screw fix
LTHW / HTG	0 / 120 C	M41092A	M41082A	M61092A	M61082A
Chilled Water	-20 / +40 C	M41092B	M41082B	M61092B	M61082B
HTHW	0 / 120 C	M41092C	M41082C	M61092C	M61082C
Cond. Water	0 / 60 C	M41092D	M41082D	M61092D	M61082D

#### Mercury in Steel – to suit 4" pocket

Service	Scale Range	100mm Dial Surface mount	100mm Dial Panel mount-screw fix	150mm Dial Surface mount	150mm Dial Panel mount-screw fix
LTHW / HTG	0 / 120 C	M41094A	M41084A	M61094A	M61084A
Chilled Water	-20 / +40 C	M41094B	M41084B	M61094B	M61084B
HTHW	0 / 120 C	M41094C	M41084C	M61094C	M61084C
Cond. Water	0 / 60 C	M41094D	M41084D	M61094D	M61084D

#### Gas filled – to suit 2.1/2" pocket

Service	Scale Range	100mm Dial Surface mount	100mm Dial Panel mount-screw fix	150mm Dial Surface mount	150mm Dial Panel mount-screw fix
LTHW / HTG	0 / 120 C	G41092A	G41082A	G61092A	G61082A
Chilled / Cond.Water	-20 / +60 C	G41092B	G41082B	G61092B	G61082B
HTHW	0 / 120 C	G41092C	G41082C	G61092C	G61082C

#### Gas filled – to suit 4" pocket

Service	Scale Range	100mm Dial Surface mount	100mm Dial Panel mount-screw fix	150mm Dial Surface mount	150mm Dial Panel mount-screw fix
LTHW / HTG	0 / 120 C	G41094A	G41084A	G61094A	G61084A
Chilled / Cond.Water	-20 / +60 C	G41094B	G41084B	G61094B	G61084B
HTHW	0 / 120 C	G41094C	G41084C	G61094C	G61084C

All thermometers are supplied with 3 metres of Copper Capillary as standard. Other lengths available, details on request.  
 For pocket details refer to Data sheets 2 & 3.



## DIFFERENTIAL GAUGES

100mm and 150mm dial sizes.  
Black case, Chrome bezel as standard.  
Stainless steel weatherproof case for external mounting.  
Matching in appearance to our pressure gauges & thermometers.  
Manufactured to comply with M & E 3, M & E 100 and EN 837.

Opposed bourdon tube design.  
3/8" BSP connections.  
Direct or Surface mounting.  
Accuracy 2%

Due to the wide range available, these instruments are strictly made to order only.  
The ratio between maximum line pressure and dial range must be no more than 4:1.  
A selection of ranges in Bar are shown below. Other scales and ranges are available. Details on request.

Dial Range	Max Line Pressure	100mm Direct mount	100mm Surface mount	150mm Direct mount	150mm Surface mount
0 / 1 Bar	4 Bar	OB11-4D1	OB11-4S1	OB11-6D1	OB11-6S1
0 / 1.5 Bar	6 Bar	OB11-4D2	OB11-4S2	OB11-6D2	OB11-6S2
0 / 2 Bar	8 Bar	OB11-4D3	OB11-4S3	OB11-6D3	OB11-6S3
0 / 2.5 Bar	10 Bar	OB11-4D4	OB11-4S4	OB11-6D4	OB11-6S4
0 / 3 Bar	12 Bar	OB11-4D5	OB11-4S5	OB11-6D5	OB11-6S5