



GNW Instrumentation

web: www.gnw.co.uk

- Units received for certification ONLY will be inspected for calibration ONLY - NO inspection of the unit internals will be undertaken. Gauges North West Ltd does not accept responsibility for failure after despatch from our works. Units new or repaired by Gauges North West Ltd will remain covered by usual warranties.



**Manufacture,
repair certify
and supply**



GNW Instrumentation

A division of Gauges North West Ltd

Unit 1 Old Hall Farm Business Park
Crowland Street
Southport
PR9 7RJ

tel: 01704 536 010

fax: 01704 548 028

email: sales@gnw.co.uk

web: www.gnw.co.uk

- Thermometers & pressure gauges
- Electronic instrumentation
- Test equipment & calibration
- Scales, balances & weights
- Pneumatic & hydraulic equipment
- Chart recorders
- Thermocouples
- Transducers & transmitters
- Flowmeters

TEST CERTIFICATE NUMBER: 74656/22

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/22
Range	-5 to +60 cm/H ₂ O

Customer: Viamed Ltd
Address: Keighley

Date Of Calibration: 14 August 2014
Test Equipment Used Rigel 388 BP Sim S/No 25A-0646
Traceable To: NIST

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: **cm/H²O**
Accuracy: **±1%** @ 20°C ±1%

Accuracy $\pm 1.6\%$

Barometric Pressure: 998mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *LM Sh*

Conditions of certification

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TEST CERTIFICATE NUMBER: 74656/24

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/24
Range	-5 to +60 cm/H ² O

Customer: Viamed Ltd
Address: Keighley

Date Of Calibration: 14 August 2014
Test Equipment Used Rigel 388 BP Sim S/No 25A-0646
Traceable To: NIST 1013-1A

Traceable To: Rigel 368 BP Slim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: **cm/H²O** @ 20°C ±1%

Accuracy	±1.6%
Barometric Pressure:	998mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *Lu Chy*

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Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/25
Range	-5 to +60 cm/H ² O
Customer:	Viamed Ltd
Address:	Keighley
Date Of Calibration:	14 August 2014
Test Equipment Used	Rigel 388 BP Sim S/No 25A-0646
Traceable To:	National Stds in accordance with BS
Test Increments: mm	

Accuracy	±1.6%
Barometric Pressure:	998mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *LM Chy*

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- Flowmeters

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/26
Range	-5 to +60 cm/H ² O
Customer:	Viamed Ltd
Address:	Keighley
Date Of Calibration:	14 August 2014
Test Equipment Used	Rigel 388 BP Sim S/No 25A-0646
Traceable To:	National Stds in accordance with BS
Test Instrument	

Accuracy	±1.6%
Barometric Pressure:	998mbar

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature Lu Chul

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Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/27
Range	-5 to +60 cm/H ² O
Customer:	Viamed Ltd
Address:	Keighley
Date Of Calibration:	14 August 2014
Test Equipment Used	Rigel 388 BP Sim S/No 25A-0646
Traceable To:	National Stds in accordance with BS
Test Increments In:	

Accuracy $\pm 1.6\%$
Barometric Pressure: 998mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *Lu Shi*

Conditions of certification

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- TEST CERTIFICATE NUMBER: 74656/28**

@ 20°C ±1%

Humidity: 58%

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

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- Transducers & transmitters
- Flowmeters

TEST CERTIFICATE NUMBER: 74656/29

Instrument: 63mm Compound Gauge
Manufacturer: Gauges North West Ltd
Serial Number: 74656/29
Range: -5 to +60 cm/H₂O

Customer: Viamed Ltd
Address: Keighley

Date Of Calibration: 14 August 2014
Test Equipment Used Rigel 388 BP Sim S/No 25A-0646
Traceable To: National Standards

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: gm/H₂O

Test Increments In: **cm/H²O**
Accuracy **±1%** @ 20°C ±1%

Accuracy $\pm 1.6\%$
Barometric Pressure: 998mbar

Humidity: 58%

Controlled Test Reading	Actual Reading Before Adjustment	Actual Error BEFORE Adjustment		Actual Reading AFTER Adjustment	
		Upscale	Downdscale	Upscale	Downdscale
-05.0	-04.8	-00.2	-00.2	-04.8	-04.8
00.0	00.0	---	---	00.0	00.0
20.0	19.7	-00.3	-00.3	19.7	19.7
40.0	39.5	-00.5	-00.5	39.5	39.5
60.0	59.5	-00.5	-00.5	59.5	59.5

Equipment Used: GNWSA51

Using Test Equipment traceable to National Institute of Standards and Technology

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature

LM Chk

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TEST CERTIFICATE NUMBER: 74656/3

Instrument: 63mm Compound Gauge
Manufacturer:

Manufacturer: 63mm Compound Gau
Serial Number: Gauges North West Ltd

Serial Number: **Gauges**
74656/3

Range -5 to +60 cm/H₂O

Customer: Viamed Ltd

Address: **Keighley**

Date Of Calibration: 14 August 2014

Test Equipment Used
Traceable To:

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: **cm/H²O**

@ 20°C ±1%

Accuracy $\pm 1.6\%$

Barometric Pressure: $\pm 1.6\%$
998mbar

Humidity: 58%

Controlled Test Reading	Actual Reading Before Adjustment	Actual Error BEFORE Adjustment		Actual Reading AFTER Adjustment	
		Upscale	Downscale	Upscale	Downscale
-05.0	-04.8	-00.2	-00.2	-04.8	-04.8
00.0	00.0	---	---	00.0	00.0
20.0	19.7	-00.3	-00.3	19.7	19.7
40.0	39.6	-00.4	-00.4	39.6	39.6
60.0	60.5	+00.5	+00.5	60.5	60.5

Equipment Used: GNWSA51

Using Test Equipment traceable to National or International Standards.

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature

Lu ChL

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- Flowmeters

TEST CERTIFICATE NUMBER: 74656/30

Instrument: 63mm Compound Gauge
Manufacturer:

Manufacturer: 63mm Compound Gau
Serial Number: Gauges North West Ltd

Serial Number: 74656/30

Range 74636/30
-5 to +60 cm/H²O

Customer: Viamed Ltd

Address: **Keighley**

Date Of Calibration: 14 August 2014

Test Equipment Used
Traceable To:

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: gm/H₂O

Test Increments In: cm/H²O

@ 20°C ±1%

Accuracy $\pm 1.6\%$

Barometric Pressure: $\pm 1.6\%$
998mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *Lu Chul*

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- Flowmeters

TEST CERTIFICATE NUMBER: 74656/31

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/31
Range	-5 to +60 cm/H ² O

Customer: Viamed Ltd
Address: Keighley

Date Of Calibration: 14 August 2014
Test Equipment Used Rigel 388 BP Sim S/No 25A-0646
Traceable To: National Standards

Traceable To: Rigel 368 BP Slim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: **cm/H²O**
Accuracy **±1.4%** @ 20°C ±1%

Accuracy	±1.6%
Barometric Pressure:	998mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *Lu Shu*

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TEST CERTIFICATE NUMBER: 74656/32

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/32
Range	-5 to +60 cm/H ₂ O

Customer: Viamed Ltd
Address: Keighley

Date Of Calibration: 14 August 2014
Test Equipment Used Rigel 388 BP Sim S/No 25A-0646
Traceable To: National Standards

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: gm/H₂O

Test Increments In: **cm/H²O**
Accuracy **±1%** @ 20°C ±1%

Accuracy	±1.6%
Barometric Pressure:	998mbar

Humidity: 58%

Controlled Test Reading	Actual Reading Before Adjustment	Actual Error BEFORE Adjustment		Actual Reading AFTER Adjustment	
		Upscale	Downdscale	Upscale	Downdscale
-05.0	-05.2	-00.2	-00.2	-05.2	-05.2
00.0	00.0	---	---	00.0	00.0
20.0	19.9	-00.1	-00.1	19.9	19.9
40.0	39.6	-00.4	-00.4	39.6	39.6
60.0	59.5	-00.5	-00.5	59.5	59.5

Equipment Used: GNWSA51

Using Test Equipment traceable to National Institute of Standards & Technology

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature

Lu Chy

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- Flowmeters

TEST CERTIFICATE NUMBER: 74656/33

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/33
Range	-5 to +60 cm/H ₂ O

Customer: Viamed Ltd
Address: Keighley

Date Of Calibration: 14 August 2014
Test Equipment Used: Rigel 388 BP Sim S/No 25A-0646
Traceable To: National Standard

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: **cm/H²O**
Accuracy: **±1%** @ 20°C ±1%

Accuracy	±1.6%
Barometric Pressure:	998mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *Lu Chik*

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- Flowmeters

TEST CERTIFICATE NUMBER: 74656/34

Instrument: 63mm Compound Gauge
Manufacturer: Gauges North West Ltd
Serial Number: 74656/34
Range: -5 to +60 cm/H₂O

Customer: Viamed Ltd
Address: Keighley

Date Of Calibration: 15 August 2014

Test Equipment Used
Traceable To:

Traceable To: Rigel 368 BP Slim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: cm/H²O
Accuracy ±1% @ 20°C ±1%

Accuracy $\pm 1.6\%$

Barometric Pressure: $\pm 1.8\%$
996mbar

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *Lu Chul*

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- Transducers & transmitters
- Flowmeters

TEST CERTIFICATE NUMBER: 74656/36

Instrument: 63mm Compound Gauge

Manufacturer: 63mm Compound Gau
Serial Number: Gauges North West Ltd

Serial Number: 74656/36

Range 74636/36
-5 to +60 cm/H²O

Customer: Viamed Ltd

Address: **Keighley**

Date Of Calibration: 15 August 2014

Test Equipment Used
Traceable To:

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: $\text{Cm}/\text{H}_2\text{O}$

@ 20°C ±1%

Accuracy $\pm 1.6\%$

Barometric Pressure: $\pm 1.8\%$
996mbar

Humidity: 58%

Controlled Test Reading	Actual Reading Before Adjustment	Actual Error BEFORE Adjustment		Actual Reading AFTER Adjustment	
		Upscale	Downscale	Upscale	Downscale
-05.0	-05.0	---	---	-05.0	-05.0
00.0	00.0	---	---	00.0	00.0
20.0	19.7	-00.3	-00.3	19.7	19.7
40.0	39.6	-00.4	-00.4	39.6	39.6
60.0	59.4	-00.6	-00.6	59.4	59.4

Equipment Used: GNWSA51

Using Test Equipment traceable to National Institute of Standards and Technology

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *LM Chy*

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TEST CERTIFICATE NUMBER: 74656/37

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/37
Range	-5 to +60 cm/H ² O
Customer:	Viamed Ltd
Address:	Keighley
Date Of Calibration:	15 August 2014
Test Equipment Used	Rigel 388 BP Sim S/No 25A-0646
Traceable To:	National Stds in accordance with BS
Test Increments In:	Cm/H ² O
Accuracy	±1.6%
Barometric Pressure:	996mbar
	@ 20°C ±1%
	Humidity:

@ 20°C ±1%

Humidity: 58%

[illegible]

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature

Lu Chy

Conditions of certification

Units received for certification ONLY will be inspected for calibration ONLY - NO inspection of the unit internals will be undertaken. Gauges North West Ltd does not accept responsibility for failure after despatch from our works. Units new or repaired by Gauges North West Ltd will remain covered by usual warranties.



GNW Instrumentation

A division of Gauges North West Ltd

tel: 01704 536 010

fax: 01704 548 028

email: sales@gnw.co.uk

web: www.gnw.co.uk

- TEST CERTIFICATE NUMBER: 74656/38**

@ 20°C ±1%

Humidity: 58%

Equipment Used: GNWSA51

Authorised Signature *LM Chy*

Conditions of certification

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**Manufacture,
repair certify
and supply**



GNW Instrumentation

A division of Gauges North West Ltd

Unit 1 Old Hall Farm Business Park
Crowland Street
Southport
PR9 7RJ

tel: 01704 536 010

fax: 01704 548 028

email: sales@gnw.co.uk

web: www.gnw.co.uk

- Thermometers & pressure gauges
- Electronic instrumentation
- Test equipment & calibration
- Scales, balances & weights
- Pneumatic & hydraulic equipment
- Chart recorders
- Thermocouples
- Transducers & transmitters
- Flowmeters

TEST CERTIFICATE NUMBER: 74656/39

Instrument:	63mm Compound Gauge
Manufacturer:	Gauges North West Ltd
Serial Number:	74656/39
Range	-5 to +60 cm/H ₂ O
Customer:	Viamed Ltd
Address:	Keighley
Date Of Calibration:	15 August 2014
Test Equipment Used	Rigel 388 BP Sim S/No 25A-0646
Traceable To:	National Stds in accordance with BS
Test Increments In:	Cm/H ₂ O
Accuracy	±1.6%
Barometric Pressure:	996mbar
	@ 20°C ±1%
	Humidity

@ 20°C ±1%

Humidity: 58%

Controlled Test Reading	Actual Reading Before Adjustment	Actual Error BEFORE Adjustment		Actual Reading AFTER Adjustment	
		Upscale	Downscale	Upscale	Downscale
-05.0	-05.0	---	---	-05.0	-05.0
00.0	00.0	---	---	00.0	00.0
20.0	19.4	-00.6	-00.6	19.4	19.4
40.0	39.6	-00.4	-00.4	39.6	39.6
60.0	59.6	-00.4	-00.4	59.6	59.6

Equipment Used: GNWSA51

Using Test Equipment traceable to National or International Standards

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature

Lu Chy

Conditions of certification

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GNW Instrumentation

A division of Gauges North West Ltd

tel: 01704 536 010

fax: 01704 548 028

email: sales@gnw.co.uk

web: www.gnw.co.uk

- TEST CERTIFICATE NUMBER: 74656/4**

Humidity: 58%

Equipment Used: GNWSA51

Authorised Signature 

Conditions of certification

Units received for certification ONLY will be inspected for calibration ONLY - NO inspection of the unit internals will be undertaken. Gauges North West Ltd does not accept responsibility for failure after despatch from our works. Units new or repaired by Gauges North West Ltd will remain covered by usual warranties.



**Manufacture,
repair certify
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GNW Instrumentation

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Unit 1 Old Hall Farm Business Park
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PR9 7RJ

PR9 7RJ

tel: 01704 536 010

fax: 01704 548 028

email: sales@gnw.co.uk

web: www.gnw.co.uk

- Thermometers & pressure gauges
- Electronic instrumentation
- Test equipment & calibration
- Scales, balances & weights
- Pneumatic & hydraulic equipment
- Chart recorders
- Thermocouples
- Transducers & transmitters
- Flowmeters

TEST CERTIFICATE NUMBER: 74656/40

Instrument: 63mm Compound Gauge
Manufacturer:

Manufacturer: 63mm Compound Gau
Serial Number: Gauges North West Ltd

Serial Number: 74656/40

Range -5 to +60 cm/H₂O

Customer: Viamed Ltd

Address: **Keighley**

Date Of Calibration: 15 August 2014

Test Equipment Used
Traceable To:

Traceable To: Rigel 388 BP Sim S/No 25A-0646
National Stds in accordance with BSEN ISO 9001:2008 via cert SEA52405R

Test Increments In: cm/H₂O

Test Increments In: cm/H²O

@ 20°C ±1%

Accuracy $\pm 1.6\%$

Barometric Pressure: $\pm 1.8\%$
996mbar

Humidity: 58%

Controlled Test Reading	Actual Reading Before Adjustment	Actual Error BEFORE Adjustment		Actual Reading AFTER Adjustment	
		Upscale	Downscale	Upscale	Downscale
-05.0	-05.3	+00.3	+00.3	-05.3	-05.3
00.0	00.0	---	---	00.0	00.0
20.0	20.8	+00.8	+00.8	20.8	20.8
40.0	40.7	+00.7	+00.7	40.7	40.7
60.0	60.3	+00.3	+00.3	60.3	60.3

Equipment Used: GNWSA51

Using Test Equipment traceable to National Institute of Standards and Technology

Using Test Equipment traceable to National or International Standards, we confirm the uncertainties of measurement are of a confident probability of not less than 95%. The uncertainty of error has been calculated using a formula ($KEx2 = \text{Known Errors} \times 2$).

Authorised Signature *Lu Shu*

Conditions of certification

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