



Suitable for
Flammable
liquids

The Seetru 'G35' Seemag® Magnetic Gauge

The Seetru Seemag® tank content indicator or gauge is a high quality yet economical magnetic level indicator. Its unique design offers considerable advantages over conventional magnetic gauges including accurate step-less reading with all round visibility and the option of high/low level alarms with remote digital reading.

The Seemag gauge meets the requirements of SOLAS (Safety Of Lives At Sea), and is also type approved by many worldwide shipping authorities including; Det Norske Veritas (DNV), RINA, Lloyds Register of Shipping, American Bureau of Shipping (ABS), Russia Maritime Register Of Shipping (RMRS) and Germanischer Lloyd.

G35 Seemag® specifications

Maximum temperature	180 °C	
Maximum pressure	16.5 bar	
Valve materials	Stainless steel	
Connections	Threaded connections, flanged connections or stub pipe for welding	
Seal materials	PTFE	
Guard tube material	Polycarbonate	
Lengths	Minimum:	500 mm
	Maximum:	5000 mm
Valve types	Valveless (¼ Turn ball isolation valves available)	
Densities	0.6 to 2.0 SG.	



Magnetic bypass design

The gauge utilises a marker strip on a movable carriage fitted on the outside of a stainless steel tube, which by way of magnets moves up and down in unison with a float inside the tube. The marker strip indicates the liquid level and is adjustable to suit the specific gravity of the liquid to be measured.

Ease of installation and maintenance

The Seemag liquid level gauge can be provided with a variety of end fittings to customer requirement. These include stub pipe for welding, ball valves, and flanges. The gauge is fitted with blanking plugs at the top and bottom of the gauge column. These can be easily removed to allow cleaning of the gauge column.

Tank calibration

A scale plate graduated in mm is incorporated into the Perspex front cover of the Seemag gauge. Other scale plates can be supplied graduated to customer requirement.

Tank connection

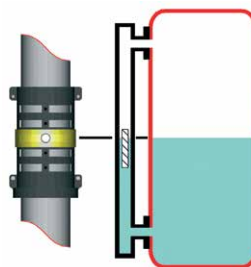
Seemag gauges are closed circuit design and both the top and bottom of the gauge is fitted to the tank.

Alarms and electronic/digital outputs

Options available include electronic high and low level alarm sensors, continuous electronic read out signals and displays as well as a digital data feed for direct computer interfaces and digital control systems.

Heating system for high viscosity liquids

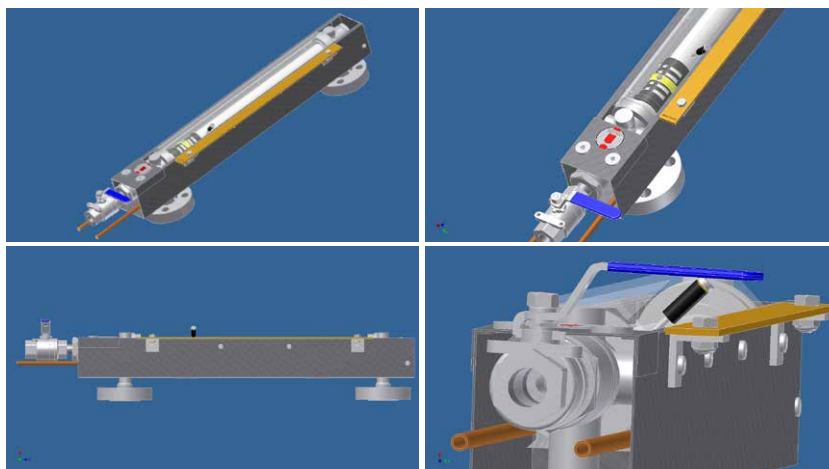
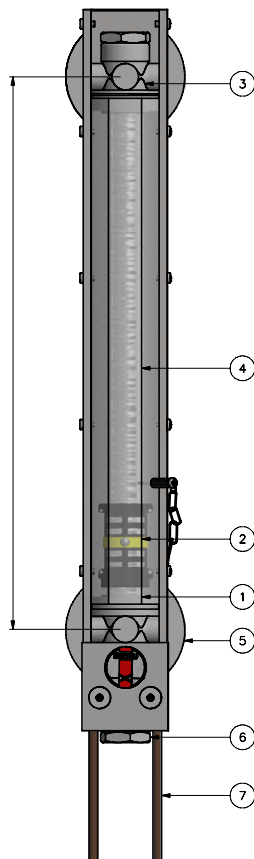
The Seemag gauge is available with an electrical, steam or thermal oil trace heating system. This heats the tube to allow the measurement of high viscosity fluids, such as heavy fuel oils on ships.





Steam Trace Heating

G35 Seemag



7	1	STEAM HEATING	-	GSA823200
6	1	DRAIN	ST. STL	GSA672200
5	2	ADAPTOR/FLANGE ASSY	ST. STL	GSA608200
4	1	TUBE/COLLAR ASSY	ST. STL	GSA627200
3	1	CONSTRUCTION	ST. ST.	GSA606200
2	1	SLEEVE	PPS	GSA601200
1	1	FLOAT	ST. STL	GSA650200

ITEM	QTY	NAME	MATERIAL	PART NUMBER
DRAWN Jamie Meachin				
DATE		26/07/2012		DRG. No. GAUGE No. G3523220
CHECKED JCF		26/07/2012		COLUMN No. G3523252000
DATE		26/07/2012		TITLE STEAM HEAT TRACE SEEMAG GAUGE.
SCALE NTS		LIMITS UNLESS STATED:		MATERIAL SEE L.O.P
ISSUE 1		DECIMAL PLACES (X) ±0.25		FINISH U/O
		WHOLE NUMBERS ±0.5		
		ANGLES ±0.5°		
		CASTINGS ±0.8		



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THIRD ANGLE PROJECTION
CAD GENERATED DRAWING
NO MANUAL REVISIONS ALLOWED
ALL DIMENSIONS IN MILLIMETRES UNLESS STATED
DO NOT SCALE DRAWING

PARTS LIST

1	8mm O/D COPPER TUBE
2	ENCLOSURE

STEAM HEATING

8mm O/D COPPER TUBE IS ATTACHED TO THE REAR GUARD TUBE IN A CONTINUOUS LOOP, FROM BOTTOM OF THE INDICATOR.

THE ENCLOSURE IS THEN FITTED AROUND THE INDICATOR TO PROTECT THE COPPER TUBE.

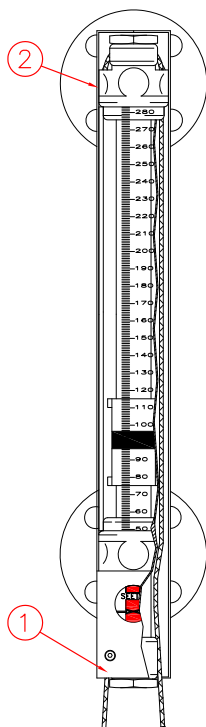
STEAM CAN BE FED THROUGH THE PIPE TO HEAT THE LIQUID IN THE BY-PASS TUBE.

EXAMPLE

AMBIENT AIR TEMPERATURE	= 20°C
STEAM PRESSURE 1.5 BAR	= 68°C LIQUID TEMPERATURE
STEAM PRESSURE 3 BAR	= 85°C LIQUID TEMPERATURE

NOTE:

MAXIMUM WORKING TEMPERATURE SHOULD NOT EXCEED 180°C.



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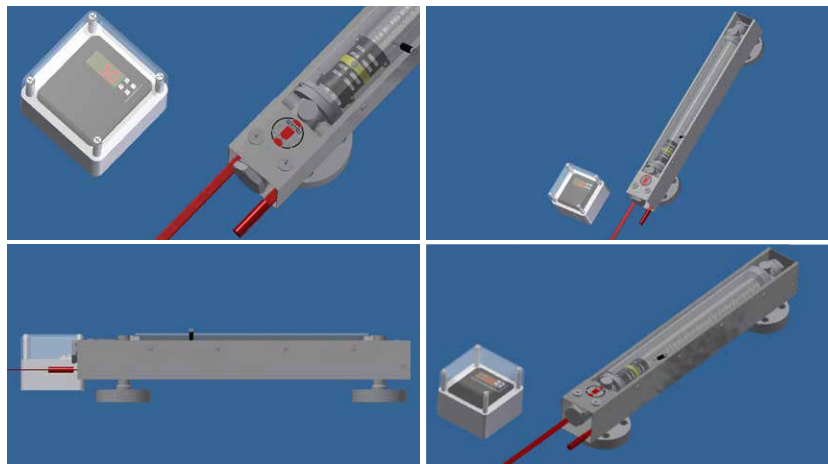
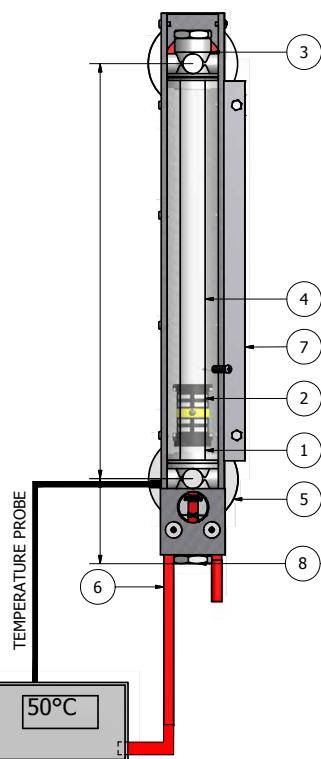
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DRAWN J.Feurtdo
DATE 20.08.12
CHECKED J.Carter
DATE 20.08.12
ISSUE D

DRG. No. SEEMAG G35
LIMITS UNLESS STATED:
DECIMAL PLACES (X) ±0.25
WHOLE NUMBERS ±0.5
ANGLES ±0.5°
CASTINGS ±0.8

TITLE MAGNETIC LIQUID LEVEL INDICATOR WITH STEAM HEATING
MATL. -
U/O DATA SHEET INFORMATION

G35 Seemag



8	1	DRAIN	ST.STL.	GSA672200
7	1	SCALE PLATE ASSY	ST.STL.	GSA701200
6	1	HEAT TRACE ASSY		GSA700200
5	2	ADAPTOR & FLANGE ASSY	ST. STL	GSA608200
4	1	TUBE/COLLAR ASSY	ST. STL	GSA705200
3	1	CONSTRUCTION	ST.STL	GSA606200
2	1	SLEEVE	PPS	GSA601530
1	1	FLOAT	ST. STL	GSA650200
ITEM	QTY	NAME	MATERIAL	PART NUMBER

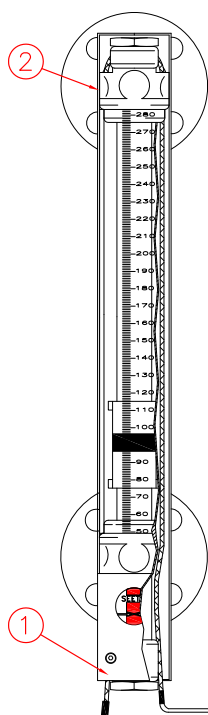


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THIRD ANGLE PROJECTION	DRAWN	Jamie Meschin
CAD GENERATED DRAWING NO MANUAL REVISIONS ALLOWED	CHECKED	JCF
ALL DIMENSIONS IN MILLIMETRES UNLESS STATED	DATE	20/04/2012
DO NOT SCALE DRAWING	SCALE	NTS
	ISSUE	1

DRG. No.	G3523220
COLUMN No.	G3523351000
LIMITS UNLESS STATED:	
DECIMAL PLACES	(X) ± 0.25
WHOLE NUMBERS	(X) ± 0.5
ANGLES	$\pm 0.5^\circ$
CASTINGS	± 0.8

TITLE	SEEMAG GAUGE WITH ELECTRONIC HEAT TRACE
MATERIAL	SEE L.O.P
FINISH	U/O



PARTS LIST

1	60W/M HEATING CABLE
2	INSULATED ENCLOSURE
3	CONTROL BOX

TRACE HEATING

A CONTINUOUS LOOP OF TRACE HEATING CABLE IS ATTACHED TO THE REAR GUARD TUBE OF THE INDICATOR. THE CABLE IS TERMINATED AT THE END TO A CONTROL BOX WHICH CAN BE USED TO REGULATE THE TEMPERATURE IN THE INDICATOR VIA A TEMPERATURE PROBE.

CONTROL BOX

VOLTAGE SUPPLY 220-240V
WITH TEMPERATURE DISPLAY AND PROBE.

EXAMPLE

AMBIENT AIR TEMPERATURE = 20°C
50°C TO 60°C LIQUID TEMPERATURE IN INDICATOR MAXIMUM.



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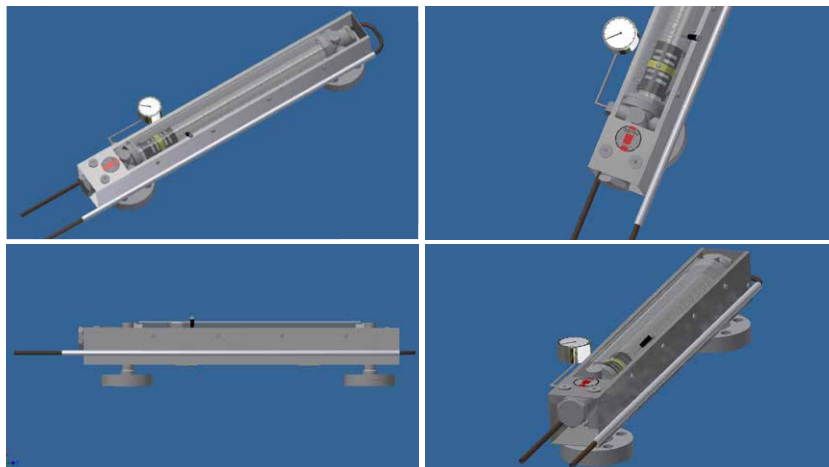
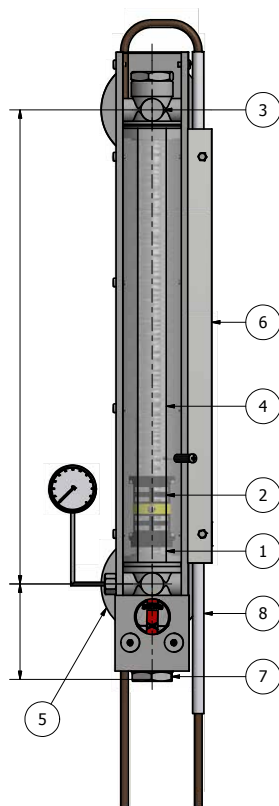
THIRD ANGLE PROJECTION	DRAWN	J.Feurlado
CAD GENERATED DRAWING NO MANUAL REVISIONS ALLOWED	DATE	20.08.12
ALL DIMENSIONS IN MILLIMETRES UNLESS STATED	CHECKED	J.Carlier
DO NOT SCALE DRAWING	DATE	20.08.12
	ISSUE	D

DRG. No.	SEEMAG G35
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TITLE	MAGNETIC LIQUID LEVEL INDICATOR WITH TRACE HEATING
MATL.	-

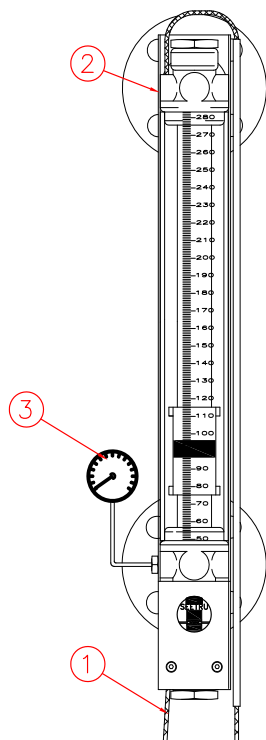


G35 Seemag



8	1	OIL HEATING ASSY	GSA826200
7	1	DRAIN	GSA672200
6	1	SCALE PLATE ASSY	GSA701200
5	2	ADAPTOR/FLANGE ASSY	GSA668200
4	1	TUBE/COLLAR ASSY	GSA702200
3	1	CONSTRUCTION	GSA606200
2	1	SLEEVE	GSA601530
1	1	FLOAT	GSA650200
ITEM	QTY	DESCRIPTION	PART NUMBER

<p>ALBION DOCKSIDE WORKS BRISTOL BS1 6JT ENGLAND TEL: +44 (0) 117 927 9204 FAX: +44 (0) 117 929 8193 www.seetru.com</p>	<p>THIRD ANGLE PROJECTION</p> <p>CAD GENERATED DRAWING NO MANUAL REVISIONS ALLOWED</p> <p>ALL DIMENSIONS IN MILLIMETRES UNLESS STATED</p> <p>DO NOT SCALE DRAWING</p>		<p>DRAWN Jamie Meschin</p> <p>DATE 12/07/2012</p> <p>CHECKED Jason Carter</p> <p>DATE 12/07/2012</p> <p>SCALE NTS</p> <p>ISSUE 1</p>	<p>DRG. No. GAUGE No. G3523HH0 COLUMN No. G3523253000 TAG No.</p>	<p>TITLE OIL HEATING SEEMAG GAUGE WITH BLANK SCALE PLATE</p> <p>MATERIAL SEE L.O.P</p> <p>FINISH U/O</p>
				<p>LIMITS UNLESS STATED:</p> <p>DECIMAL PLACES (X) ± 0.25</p> <p>WHOLE NUMBERS (X) ± 0.5</p> <p>ANGLES $\pm 0.5^\circ$</p> <p>CASTINGS ± 0.8</p>	



PARTS LIST

1	6mm O/D COPPER TUBE
2	INSULATED ENCLOSURE
3	THERMOMETER

OIL HEATING

6mm O/D COPPER TUBE IS ATTACHED TO THE REAR GUARD TUBE, FROM BOTTOM OF THE INDICATOR AND THEN EXITS THE INDICATOR AT THE TOP. IT THEN RUNS DOWN THE OUTSIDE OF THE INDICATOR IN ONE CONTINUOUS LOOP.

THE ENCLOSURE IS THEN FITTED AROUND THE INDICATOR TO PROTECT THE COPPER TUBE.

OIL CAN BE FED THROUGH THE PIPE TO HEAT THE LIQUID IN THE BY-PASS TUBE.

EXAMPLE

AMBIENT AIR TEMPERATURE = 20°C
50°C TO 70°C LIQUID TEMPERATURE IN INDICATOR WHEN SUPPLIED WITH 108°C OIL.

NOTE:

MAXIMUM WORKING TEMPERATURE SHOULD NOT EXCEED 180°C.

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Ship Building & Offshore

G35 Seemag Marine



Suitable for
Flammable
liquids

The Seetru 'G35' Seemag® Marine Magnetic Gauge

The Seetru Seemag® Marine tank content indicator or gauge is a high quality yet economical magnetic level indicator. Its unique design offers considerable advantages over conventional magnetic gauges including accurate step-less reading with all round visibility and the option of high/low level alarms with remote digital reading.

The Seemag gauge meets the requirements of SOLAS (Safety Of Lives At Sea), and is also type approved by many worldwide shipping authorities including; Det Norske Veritas (DNV), Lloyds Register of Shipping, American Bureau of Shipping (ABS) and Russia Maritime Register Of Shipping (RMRS)

G35 Seemag® Marine specifications

	Standard Float	High Pressure Float
Maximum temperature	60 °C	180 °C
Maximum pressure	3 bar	16.5 bar
End unit materials	Stainless steel	
Connections	Flanged or Threaded connections	
Seal materials	PTFE	
Guard tube material	Polycarbonate	
Lengths	Minimum: 400 mm Maximum: 5000 mm	
Valve types	Valveless (¼ Turn ball isolation valves available)	
Densities	0.6 to 2.0 SG.	



Magnetic bypass design

The gauge utilises a marker strip on a movable carriage fitted on the outside of a stainless steel tube, which by way of magnets moves up and down in unison with a float inside the tube. The marker strip indicates the liquid level and is adjustable to suit the specific gravity of the liquid to be measured.

Ease of installation and maintenance

The Seemag liquid level gauge can be provided with a variety of end fittings to customer requirement. These include stub pipe for welding, ball valves, and flanges. The gauge is fitted with blanking plugs at the top and bottom of the gauge column. These can be easily removed to allow cleaning of the gauge column.

Tank calibration

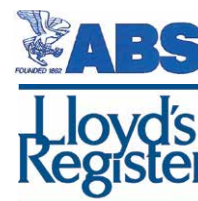
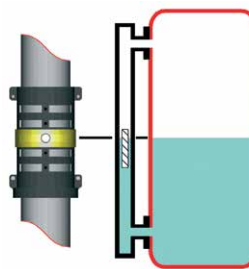
A scale plate graduated in mm is incorporated into the Perspex front cover of the Seemag gauge. Other scale plates can be supplied graduated to customer requirement.

Heating system for high viscosity liquids

The Seemag gauge is available with an electrical, steam or thermal oil trace heating system. This heats the tube to allow the measurement of high viscosity fluids, such as heavy fuel oils on ships.

Alarms and electronic/digital outputs

Options available include electronic high and low level alarm sensors, continuous electronic read out signals and displays as well as a digital data feed for direct computer interfaces and digital control systems.



Ростехнадзор

The Seetru 'G21' Marine Tubular Gauge

The Seetru Marine gauge is designed for use within the marine and offshore industries. Due to its tubular design this gauge is suitable only for use with non-flammable liquids. For flammable liquid applications please see either Seeflex (G31) or Seemag gauges (G35).

This gauge is commonly used for the water storage and coolant tanks on board cargo ships, tugs and military vessels.

G21 Marine specifications

Maximum temperature	150 °C ¹
Maximum pressure	3.68 bar ²
Valve materials	Brass Stainless steel
Connections	42 mm weld boss as standard Threaded and flanged connections available upon request
Seal materials	Elastomer 'O' rings
Tube material	Borosilicate glass BS 3463 or polycarbonate plastic
Guard tube materials	Brass Aluminium Stainless steel Mild steel
Lengths	To suit requirements (minimum 150 mm)
Valve types	Push button self closing valves Valveless tank return available for top connection

¹ Maximum temperature is dependant of the sight tube and seal materials selected.

² Maximum allowable operating pressure is dependent upon operating temperature and sight tube material, contact Seetru for full information.

Push-button operation

Except when a reading is being taken, the gauge is permanently isolated from the contents of the tank. To take a reading the spring loaded valve is opened by pressing a push-button. When released, the connection between the tank and gauge is automatically resealed.

Safe from external damage

Due to the design of the push-button isolation valve, not amount of damage to the gauge or external fittings on the tanks can break the liquid seals. In such an event the fluid cannot escape.

Instant dismantling and re-assembly

The gauge can be removed from the tank for cleaning or servicing while valves remain sealed and the tank remains leak-proof.

Ease of viewing

The level of colourless liquid is indicated by magnification of a coloured strip on the sight tube.

Graduation

Where a measure of the precise storage volume is required, graduated gauges can be supplied. The capacity units can either be marked on the guard tube or an engraved scale plate can be provided.

Hydraulic actuation

Hydraulic actuation can be supplied as an optional extra. This is designed to enable both push-button valves to be operated at the same time. Recommend for tall gauges where it would otherwise be difficult to operate the upper and lower push-button valves simultaneously.



Suitable for
Non-flammable
liquid



Ростехнадзор



G31 Seeflex

Suitable for
Flammable
liquids

The Seetru 'G31' Seeflex Gauge

The Seetru Seeflex gauge is designed for use within the marine and offshore industries for tanks containing flammable liquids. The Seeflex gauge meets the requirements of SOLAS (Safety Of Lives At Sea), and is also type approved by many worldwide shipping authorities including; Det Norske Veritas (DNV), RINA, Lloyds Register of Shipping, Nippon Kaiji Kyokai and Bureau Veritas.

This gauge is commonly used for fuel oil, hydraulic oil and lubrication oil tanks of cargo ships and work boats.

G31 Seeflex specifications

Maximum temperature	80 °C ¹
Maximum pressure	2.67 bar ¹
Valve material	Brass Stainless steel
Connections	42 mm weld boss mild steel and stainless steel Threaded and flanged available upon request
Seal materials	Elastomer 'O' rings
Glass	Toughened borosilicate reflex glass DIN 7080/7081
Column materials	Mild steel or stainless steel rust protected front bezel
Lengths	Maximum: 8900 mm
Valve types	Push button self closing valves

¹ Maximum allowable operating pressure is dependent upon operating temperature, contact Seetru for full information.



Push-button operation

Except when a reading is being taken, the gauge is permanently isolated from the contents of the tank. To take a reading the spring loaded valve is opened by pressing a push-button. When released, the connection between the tank and gauge is automatically resealed.

Safe from external damage

Due to the design of the push-button isolation valve, not amount of damage to the gauge or external fittings on the tanks can break the liquid seals. In such an event the fluid cannot escape.

Closed circuit design

The closed circuit design penetrates the tank wall at both top and bottom connections. The options for the top connection are either a push-button self closing valve or valveless tank return.

Open circuit design

This is only allowable when it is possible for the gauge column to extend above the top of the tank by at least 100 mm. The upper end of the gauge can be supplied with an automatic safety vent valves or, alternatively, a pipe union connection. The automatic safety vent will allow air to pass, but will seal against a liquid level. In the case of the pipe union connection design, a 10 mm o/d steel vent pipe is returned to the tanks or into the tank vent pipe.

Hydraulic actuation

Hydraulic actuation can be supplied as an optional extra. This is designed to enable both push-button valves to be operated at the same time. Recommend for tall gauges where it would otherwise be difficult to operate the upper and lower push-button valves simultaneously.

Graduation

Where a measure of the precise storage volume is required, an engraved scale plate can be provided marked with the capacity units.



Ship Building & Offshore

G22 Quickmount

Suitable for
Water /
Waste Water Only

The Seetru 'G22' Quickmount Tubular Gauge

The Seetru Quickmount liquid level gauge is a direct reading, tubular design for general industrial use. The unique isolating valve and collar design, allows for maintenance of the gauge column without tools and the need to drain the tank. Available with automatic safety shut off valves and drain valve. The construction provides a modern gauge, which is aesthetically pleasing.

Suitable for a wide range of pressures and temperatures, the gauge is fitted with elastomer seals in materials to suit the required service. For flammable liquid applications please see either Seeflex (G31) or Seemag (G35)

G22 Quickmount specifications

Maximum temperature	150 °C ¹
Maximum pressure	22 bar ¹
Valve materials	Brass Stainless steel Polypropylene
Connections	BSP and NPT threaded connections ANSI / DIN flanges
Seal materials	Elastomer
Tube materials	Borosilicate glass BS 3463 Polycarbonate plastic
Guard tube materials	Anodised aluminium Brass Stainless steel Zinc plated mild steel
Lengths	To suit requirements (minimum 150 mm)
Valve types	Manual screw down, Manual screw down complete with automatic safety shut-off valves

¹ Maximum allowable operating pressure is dependent upon operating temperature and gauge length, contact Seetru for full information.



Tubular sight glass design

Sight tubes are available in glass or polycarbonate. Metal protecting tubes are available in a variety of materials with optional supplementary transparent polycarbonate protecting tube.

Ease of installation and maintenance

The Quickmount liquid level gauge can be installed without the use of special tools. Threaded end units are screwed into female tank bosses. The gauge collars slip over these units and are secured by hand tightening retaining nuts. 'O' ring sealing is used throughout. The isolating valves will allow column removal without need to drain the tank.

Tank calibration

Where a measure of the precise storage volume is required, graduated gauges can be supplied. The capacity units can either be marked on the guard tube or an engraved scale plate can be provided.

Tank connection

A closed circuit or open circuit pattern may be selected for the gauge.

Closed circuit pattern

Direct connection from the top of the gauge to the tank can be made with a screw-down valve or a valveless unit.

Open circuit pattern

The upper end of the liquid level gauge can be supplied with an automatic safety vent valve or, alternatively, a pipe union connection. The automatic safety vent valve will allow air to pass, but will seal against a liquid level. In the case of the pipe union connection design, a 10 mm o/d steel vent pipe is returned to the tank or into the tank vent pipe. Open circuit connection is only allowable when it is possible for the gauge column to extend above the top of the tank.

Electronic & Digital Readout

Remote reading system and/or computer interface options provide a dual system with the advantages of both electronic and sight glass systems. Level alarms can also be implemented.





Ship Building & Offshore

G20 Admiralty

Suitable for
Water /
Waste Water Only

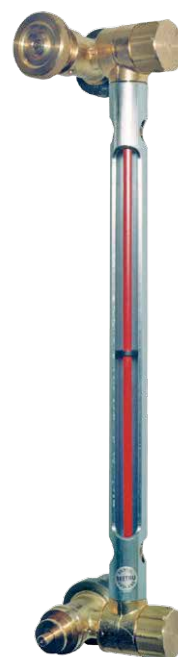
The Seetru 'G20' Admiralty Gauge

The Seetru Admiralty liquid level gauge has been specifically designed to meet the stringent standards required by the Ministry of Defence for design, material selection and certification, including shock testing. With a tubular glass indicator the G20 utilises an ingenious flexible fixing system which enables multi-angle and directional mounting capabilities.

For flammable liquid applications please see either Seeflex (G31) or Seemag gauges (G35).

G20 Admiralty specifications

Maximum temperature	150 °C ¹
Maximum pressure	22 bar ¹
Valve material	Bronze Stainless steel
Connections	42 mm weld boss
Seal materials	Elastomer
Tube materials	Borosilicate glass BS 3463 Polycarbonate plastic
Guard Tube materials	Anodised aluminium Brass Stainless steel Zinc plated mild steel
Lengths	To suit requirements (minimum 150 mm)
Valve types	Hand wheel isolation valves and/or push-button closing valves



¹ Maximum allowable operating pressure is dependent upon operating temperature, contact Seetru for full information.

Push-button operation

Except when a reading is being taken, the gauge is permanently isolated from the contents of the tank. To take a reading the spring loaded valve is opened by pressing a push-button. When released, the connection between the tank and gauge is automatically resealed.

Graduation

Where a measure of the precise storage volume is required, an engraved scale plate can be provided marked with the capacity units

Electronic & digital readout

Remote reading system and/or computer interface options provide a dual system with the advantages of both electronic and sight glass systems. Level alarms can also be implemented (suitable for gauges fitted with screw down valves only).

Hydraulic actuation

Hydraulic actuation can be supplied as an optional extra. This is designed to enable both push-button valves to be operated at the same time. Recommend for tall gauges where it would otherwise be difficult to operate the upper and lower push-button valves simultaneously.



Ростехнадзор