

Level Gauges / Switches**Model: GLG / GLS**

Srl.	Items	Models
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3	Tubular Level Gauges	GLG-TU
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Note: Part of our development programs, product specifications, photos, drawings, dimensions and other information provided in catalogue/website may change without any notice.

A) Level Gauges

Model: GLG

1) Reflex Level Gauge specifications:

Model	: GLG-RE
Mounting	: Side-Side Right, Side-Side Left, Side-Side Back (Right/Left), Top-Bottom Vertical.
Centre to Centre Distance	: Up to 3Mtrs.
Indication Range	: Specify
Liquid Chamber	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Cover Plate	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Cushion & Gasket	: CAF, PTFE, SS impregnated Grafoil
Scale	: Engraved in "MM" on Anticorrosion powder coated Aluminium, Aluminium, SS304, SS316, Acrylic
Window	: Glass (upto 320°C), Toughened borosilicate glass (upto 400°C)
Fasteners	: ASTM A193 Gr.B7, A194 Gr.2H, Anodized Aluminium for PP), SS, CS plated
Isolation Valve	: Provided
Bonnet	: Screwed offset (Upto 50Kg/Cm ²), Bolted offset (Above 50Kg/Cm ²)
Vent & Drain	: ½" NPTF or ¾" NPTF with Plug, Needle Valve, Ball Valve, Globe Valve, Gate Valve
Nipple	: Specify material, size, schedule, length
Process Connection	: Flanged, Screwed (specify size, rating & type for flanged or thread size & type for screwed) (Connection material same as Chamber, if not specified by user)
Wetted Parts	: Wetted parts materials same as liquid chamber, if not specified
Liquid Chamber Construction	: Forged and machined
Application	: Low (Upto 30Kg/Cm ²), Medium (Upto 85Kg/Cm ²), High (Upto 165Kg /Cm ²), Very High (Upto 200Kg/Cm ²) Pressure / Temperature Upto 400°C for all types.
Optional	: IBR, NACE, H2S, Heating Jacket, Non-Frost Extension, Cryogenic (Upto -196°C) PTFE lining or coating on wetted parts.
Note	: Specifications/material other than above available on request.

**2) Transparent Level Gauge specifications:**

Model	: GLG-TR
Mounting	: Side-Side Right, Side-Side Left, Top-Bottom Vertical.
Centre to Centre Distance	: Up to 3Mtrs.
Indication Range	: Specify
Liquid Chamber	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Cover Plate	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Cushion & Gasket	: CAF, PTFE, SS impregnated Grafoil
Scale	: Engraved in "MM" on Anticorrosion powder coated Aluminium, Aluminium, SS304, SS316, Acrylic
Window	: Glass (upto 320°C), Toughened borosilicate glass (upto 400°C)
Fasteners	: ASTM A193 Gr.B7, A194 Gr.2H, Anodized Aluminium for PP), SS,

Isolation Valve	: CS plated
Bonnet	: Provided
Vent & Drain	: Screwed offset (Upto 50Kg/Cm ²), Bolted offset (Above 50Kg/Cm ²)
Process Connection	: ½" NPTF or ¾" NPTF with Plug, Needle Valve, Ball Valve, Globe Valve, Gate Valve
	: Flanged, Screwed (specify size, rating & type for flanged or thread size & type for screwed)
	(Connection material same as Chamber, if not specified by user)
Nipple	: Specify material, size, schedule, length
Wetted Parts	: Wetted parts materials same as liquid chamber, if not specified
Liquid Chamber Construction	: Forged and machined
Application	: Low (Upto 30Kg/Cm ²), Medium (Upto 85Kg/Cm ²), High (Upto 165Kg /Cm ²), Very High (Upto 200Kg/Cm ²) Pressure / Temperature Upto 400°C for all types.
Optional	: IBR, NACE, H2S, Heating Jacket, Non-Frost Extension, Cryogenic (Upto -196°C), PTFE lining or coating on wetted parts, Mica Shield protection for temperature upto 550°C, Illuminator (Weatherproof IP-67 or Flameproof Gr.IIA/IIB or Flameproof Gr.IIC),

Illuminator (Lamp) specifications (Optional):

Rating	: Upto 15 W / 25W GLS, 15W LED
Flash	: 240VAS, Not applicable
Case	: Die cast Aluminium, light grey epoxy coated, Cable entries of 2 Nos. 3/4" ETF with or without cable glands
Protection	: Weatherproof IP-67, Flameproof Gr.IIA/IIB, Flameproof Gr.IIC,
Earthing	: 2 Nos. external and 1 No. Internal
Mounting	: Transparent acrylic sheet with mounting bracket
Note	: Specifications/material other than above available on request.



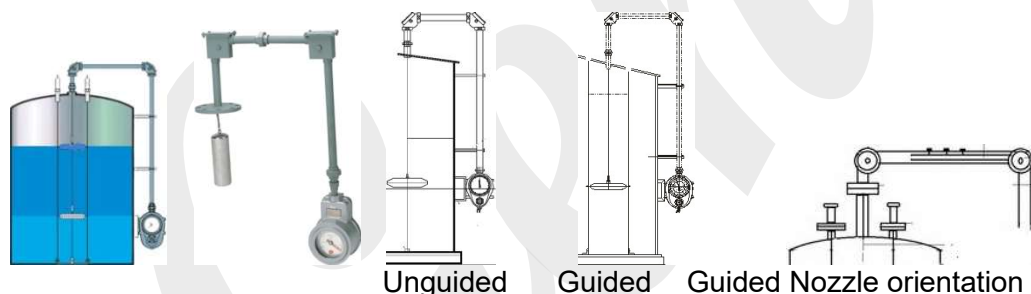
3) Tubular Level Gauge specifications:

Model	: GLG-TU
Mounting	: Top-Bottom Vertical
Centre to Centre Distance	: Up to 2Mtrs.
Indication Range	: Specify
Scale	: Engraved in "MM" on Anticorrosion powder coated Aluminium, Aluminium, SS304, SS316, Acrylic
Tube Material	: Toughened borosilicate glass
Tube Dia	: 16mm, 19mm
Tube Holder Type	: Tie Rods, 'C' Channel
Tube Holder Material	: SS304, SS304L, SS316, SS316L, CS, MS, MS powder Coated
Isolation Valve	: Provided
Bonnet	: Screwed offset
Vent & Drain	: ½" NPTF or ¾" NPTF with Plug, Needle Valve, Ball Valve, Globe Valve, Gate Valve
Process Connection	: Flanged, Screwed, Socket Weld (specify size, rating & type for flanged or thread size & type for screwed)
	(Connection material same as Tube holder, if not specified by user)
Nipple	: Specify material, size, schedule, length
Application	: Pressure upto 10Kg/Cm ² & Temperature upto 150°C
Optional	: NACE, H2S, CE, PTFE lined flange, PFA lined flange
Note	: Specifications/material other than above available on request.



4) Float & Tape Level Gauge specifications:

Model	: GLG-FT
Design	: Guided, Unguided
Mounting	: Top mounted
Measuring Range	: Upto 25Mtrs. below connection (Specify)
Indication Range	: Specify
Indication Accuracy	: 1%
Float Material	: SS304, SS304L, SS316, SS316L, Monel-400, Hastelloy-B, Hastelloy-C Titanium, Polypropylene (PP)
Guide Rope Material	: SS304, SS304L, SS316, SS316L, PP, PTFE, Not applicable
Float Rope Material	: SS304, SS304L, SS316, SS316L, PP, PTFE
Anchor Plate Material	: Same as float, unless specified by user
Process Connection	: Flanged (Specify size, rating & type) Material : SS304, SS304L, SS316, SS316L, A105
Dial Size	: 6" to 20"
Dial Case	: Die cast Aluminium, Epoxy coated, Weatherproof IP-65
Dial Case Holder	: SS304, SS316, SS316L, CS, GI
Application	: Pressure upto 50Kg/Cm ² & Temperature upto 400°C
Nozzle Assembly	: Provided for guided type design
Protection Tube	: SS304, SS304L, SS316, SS316L, PP, PTFE provided with Rope Tension Assembly for Guide rope
Optional	: NACE, H2S
Note	: Specifications/material other than above available on request.



Unguided Guided Guided Nozzle orientation

5) Float & Board Level Gauge specifications:

Model	: GLG-FB
Design	: Guided, Unguided
Mounting	: Top mounted
Measuring Range	: Upto 15Mtrs. for Guided, Upto 5Mtrs. for Unguided
Indication Range	: Specify
Scale Board	: Engraved in "MM" on 150mm wide white Anticorrosion powder coated Aluminium, Aluminium, SS304, SS316
Indication Accuracy	: 5%
Float Material	: SS304, SS304L, SS316, SS316L, Monel-400, Hastelloy-B, Hastelloy-C Titanium, Polypropylene (PP)
Guide Rope Material	: SS304, SS304L, SS316, SS316L, PP, PTFE, Not applicable
Float Rope Material	: SS304, SS304L, SS316, SS316L, PP, PTFE
Anchor Plate Material	: Same as float, unless specified by user
Process Connection	: Flanged (Specify size, rating & type) Material : SS304, SS304L, SS316, SS316L, A105
Application	: Pressure upto 50Kg/Cm ² & Temperature upto 400°C
Nozzle Assembly	: Provided for guided type design

Protection Tube : SS304, SS304L, SS316, SS316L, PP, PTFE provided with Rope Tension Assembly for Guide rope
 Optional : NACE, H2S, with Switch
 Note : Specifications/material other than above available on request.



6) Magnetic Level Gauge specifications:

Model : **GLG-M**
Mounting : Top mounted, Side mounted
Centre to Centre Distance : Up to 7Mtrs.
Indication Range : Specify
Liquid Chamber : SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Float : SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Gasket : CAF, PTFE, SS impregnated Grafoil
Scale : Engraved in "MM" on Anticorrosion powder coated Aluminium, Aluminium, SS304, SS316
Fasteners : ASTM A193 Gr.B7, A194 Gr.2H, Anodized Aluminium for PP), SS, CS plated
Indicator : Bicolour flapper (SS, Aluminium, ABS), 4mm length x 0.25mm thick with aligned magnets
Flapper Protection Box : SS304, SS316, Aluminium, MS
Top Cover : Suitable to liquid chamber
Vent & Drain : 1/2" NPTF or 3/4" NPTF with Plug, Needle Valve, Ball Valve, Globe Valve, Gate Valve
Nipple : Specify material, size, schedule, length
Process Connection : Flanged (specify material, size, rating & type)
Wetted Parts : Wetted parts materials same as liquid chamber, if not specified
Liquid Chamber Construction : Forged and machined
Process Medium Specific Gravity : Specify
Application : Pressure upto 100Kg/Cm² & Temperature upto 300°C
Optional : IBR, NACE, H2S, Heating Jacket, Non-Frost Extension, Cryogenic (Upto -196°C), PTFE lining or coating on wetted parts, Still well for top mounted, Heat tracing, Transmitter (HART or Fieldbus), Switch.
Note : Specifications/material other than above available on request.



B) Level Switches

Model: GLS

7) Magnetic Level Gauge with Switch specifications:

Model	: GLS-M
Mounting	: Top mounted, Side mounted
Centre to Centre Distance	: Up to 7Mtrs.
Indication Range	: Specify
Liquid Chamber	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Float	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS
Gasket	: CAF, PTFE, SS impregnated Grafoil
Scale	: Engraved in "MM" on Anticorrosion powder coated Aluminium, Aluminium, SS304, SS316
Fasteners	: ASTM A193 Gr.B7, A194 Gr.2H, Anodized Aluminium for PP), SS, CS plated
Indicator	: Bicolour flapper (SS, Aluminium, ABS), 4mm length x 0.25mm thick with aligned magnets
Flapper Protection Box	: SS304, SS316, Aluminium, MS
Top Cover	: Suitable to liquid chamber
Vent & Drain	: ½" NPTF or ¾" NPTF with Plug, Needle Valve, Ball Valve, Globe Valve, Gate Valve
Nipple	: Specify material, size, schedule, length
Process Connection	: Flanged (specify material, size, rating & type)
Wetted Parts	: Wetted parts materials same as liquid chamber, if not specified
Liquid Chamber Construction	: Forged and machined
Process Medium Specific Gravity	: Specify
Application	: Pressure upto 100Kg/Cm ² & Temperature upto 300°C
Switch	: 1-SPDT snap acting Microswitch, 5A 230VAC
Switch Case	: Die Cast Aluminium, Weatherproof IP-67, Flameproof IIA/IIB, Flameproof IIC (Flameproof with PESO(CCOE) certificate)
Cable Entry	: 1 or 2 Nos. of ¾"ETF
Cable Gland	: Double compression or Standard in SS304, SS316, 316L, Brass, ABS Plastic, Not applicable
Switch Area Classification	: CCOE, FM, ATEX, CE on request
Optional	: IBR, NACE, H2S, Heating Jacket, Non-Frost Extension, Cryogenic (Upto -196°C) PTFE lining or coating on wetted parts, Still well for top mounted, Heat tracing, Transmitter (HART or Fieldbus), Switch Case (SS304, SS316, SS316L)
Note	: Specifications/material other than above available on request.

**8) Magnetic Level Gauge with Transmitter Assembly specifications:**

Model	: GLT-M
Specifications	: Refer above item No.6
Transmitter specifications	: As shown in attached manufacturer catalogue
Make	: Specify
Type	: HART, Fieldbus



9) Float Operated Direct Insert Level Switch specifications:

Model	: GLS-FO
Mounting	: Top mounted, Side mounted
Float & Stem Material	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), PTFE
Insertion Length	: Upto 3Mtrs. below connection (Specify)
Switch	: 1-SPDT or 2-SPDT snap acting Microswitch, 5A 230VAC / 0.5A 24VDC (Switching differential upto 2mm)
Switch Case	: Die Cast Aluminium, Weatherproof IP-67, Flameproof IIA/IIB, Flameproof IIC (Flameproof with PESO(CCOE) certificate)
Cable Entry	: 1 or 2 Nos. of 3/4"ETF, 1/2"NPTF, M20x1.5F
Cable Gland	: Double compression or Standard in SS304, SS316, 316L, Brass, ABS Plastic, Not applicable
Switch Area Classification	: CCOE, FM, ATEX, CE on request
Support Tube	: Provided suitably, if applicable (material same as float)
Process Connection	: Flanged, Screwed, Socket Weld (specify size, rating & type for flanged or thread size & type for screwed) (Connection material same as float, if not specified by user)
Process Medium Specific Gravity	: Specify
Application	: Pressure upto 100Kg/Cm ² & Temperature -100 to +350°C
Wetted Parts	: Wetted parts materials same as Float, if not specified
Optional	: NACE, H2S, PTFE lining or coating on wetted parts, Switch Case (SS304, SS316, SS316L)
Note	: Specifications/material other than above available on request.



Side Mounted Top mounted

10) Displacer Operated Direct Insert Level Switch specifications:

Model	: GLS-DO
Mounting	: Top mounted
Displacer Material	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), PTFE
Wire Rope & Spring Material	: Same as Displacer, if not specified by user
Insertion Length	: Upto 10Mtrs. below connection (Specify)
Switch	: 1-SPDT or 2-SPDT snap acting Microswitch, 5A 230VAC / 0.5A 24VDC (Switching differential upto 10mm)
Switch Case	: Die Cast Aluminium, Weatherproof IP-67, Flameproof IIA/IIB, Flameproof IIC (Flameproof with PESO(CCOE) certificate)
Cable Entry	: 1 or 2 Nos. of 3/4"ETF, 1/2"NPTF, M20x1.5F
Cable Gland	: Double compression or Standard in SS304, SS316, 316L, Brass, ABS Plastic, Not applicable

Switch Area Classification	: CCOE, FM, ATEX, CE on request
Process Connection	: Flanged, Screwed, Socket Weld (specify size, rating & type for flanged or thread size & type for screwed) (Connection material same as Displacer, if not specified by user)
Process Medium Specific Gravity	: Specify
Application	: Pressure upto 40Kg/Cm ² & Temperature upto 250°C
Wetted Parts	: Wetted parts materials same as Displacer, if not specified
Optional	: NACE, H2S, PTFE lining or coating on wetted parts, , Switch Case (SS304, SS316, SS316L)
Note	: Specifications/material other than above available on request.



11) Magnetic Float Operated Multiport Level Switch specifications:

Model	: GLS-MP
Mounting	: Top mounted
Insertion Length	: Upto 4.5Mtrs. below connection (Specify)
No. of Floats	: Specify
Float, Stem & Stopper Material	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), PTFE
Switch	: Reed switch 0.5A 24VDC (Switching differential upto 10mm)
Switch Case	: Die Cast Aluminium, Weatherproof IP-67, Flameproof IIA/IIB, Flameproof IIC (Flameproof with PESO(CCOE) certificate)
Cable Entry	: 1 or 2 Nos. of 3/4"ETF, 1/2"NPTF, M20x1.5F
Cable Gland	: Double compression or Standard in SS304, SS316, 316L, Brass, ABS Plastic, Not applicable
Switch Area Classification	: CCOE, FM, ATEX, CE on request
Process Connection	: Flanged, Screwed, Socket Weld (specify size, rating & type for flanged or thread size & type for screwed) (Connection material same as float, if not specified by user)
Process Medium Specific Gravity	: Specify
Application	: Pressure upto 100Kg/Cm ² & Temperature -100 to +350°C
Wetted Parts	: Wetted parts materials same as Float, if not specified
Optional	: NACE, H2S, PTFE lining or coating on wetted parts, Perforated still Well, Switch Case (SS304, SS316, SS316L)
Note	: Specifications/material other than above available on request.



C) Accessories

Model: GAL

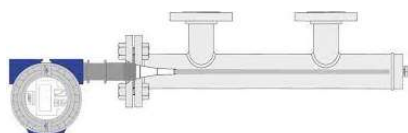
12) External Chamber for Guided Wave Radar Transmitter / Level Switch specifications:

Model	: GA-LEC
Application	: For Guided Wave Radar Transmitter, For Level Switch
Design	: Top mounted, Side mounted for Level Switch
Centre to Centre Distance	: Upto 5Mtrs. (Specify) for Guided Wave Radar Transmitter, Upto 2Mtrs. (Specify) for Level Switch
Liquid Chamber	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, Polypropylene (PP), CS, LTCS, Alloy-20, PVDF, PTFE

Chamber Size	: Specify
Gasket	: CAF, PTFE, SS impregnated Grafoil
Fasteners	: ASTM A193 Gr.B7, A194 Gr.2H, Anodized Aluminium for PP, SS, CS plated
Instrument Connection	: Flanged, Screwed
Process Connection	: Flanged, Screwed, Socket Weld (specify size, rating & type for flanged or thread size & type for screwed)
Connection Material	: Same as chamber, if not specified by user
Nipple/Nozzle	: Specify material, size, schedule, length
Wetted Parts	: Wetted parts materials same as chamber, if not specified by user
Application	: Applicable upto 150 kg & upto 550°C (Conductive & non conductive liquids, mixtures of gases & liquids)
Optional	: IBR, NACE, H2S, Heating Jacket, Non-Frost Extension, Cryogenic (upto -196°C), PTFE lining, PTFE coating on wetted parts, Transmitter HART / FF



Top mount



Top mount



Top mount



Side Mount

13) Level Calibration Port specifications:

Model	: GA-LCP
Liquid Chamber	: Glass (upto 320°C), Borosilicate glass (upto 400°C)
Chamber Capacity	: Specify in Milliliters or Liters
Chamber Size	: Cylindrical dia & height suitable to chamber capacity, if user not specified
Scale	: Engraved on Anticorrosion powder coated Aluminium, Aluminium, SS304, SS316, Acrylic
Scale Range	: Specify
Chamber Holder	: Tie Rods, 'C' Channel welded (leak proof) with top & bottom plate
Holder Material	: SS304, SS304L, SS316, SS316L, CS, MS, MS powder Coated
Vent	: 1/2" or 3/4" with NPT Plug on top plate (Plug material same as plate)
Top & Bottom Plates	: SS304, SS304L, SS316, SS316L, Monel-400, Inconel-600, Hastelloy-B, Hastelloy-C, Titanium, CS, LTCS, Alloy-20, PVDF, PP, PTFE, uPVC, cPVC, HDPE
Gasket	: CAF, PTFE, SS impregnated Grafoil
Process Connection (at bottom)	: Flanged, Screwed (specify material, size, rating & type for flanged or thread size & type for screwed)
Nipple/Nozzle	: Specify material, size, schedule, length
Optional	: PTFE lined flange, PFA lined flange
Note	: Specifications/material other than above available on request.

Note:- Specifications other than above offered on request. Refer "optional items list" or "accessories catalogue" for more details, if required