INTRA-AUTOMATION

MESS- UND REGELINSTRUMENTE / MEASUREMENT AND CONTROL

LEVEL GAUGING SYSTEM

Type: Maglink

Series: 5300 and 5400

Technical Information

07/2026

Intra-Automation
Technical Information „Maglink“
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LEVEL GAUGING SYSTEM

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Maglink 1. General Information

Maglink 1.1. Design and Measurement Principle

The Level Gauging System “Maglink” consists of three main modules:

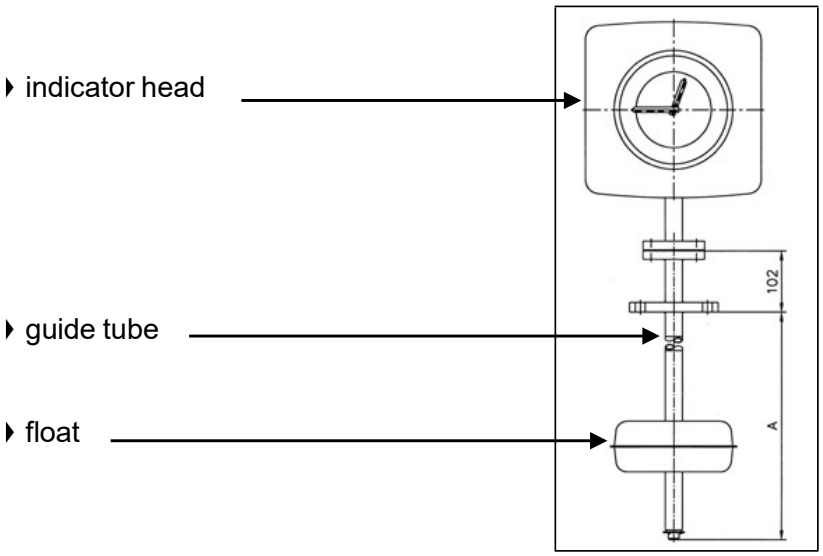


Fig. 01 Maglink

In the indicator head contains all the mechanical parts of the level indicator. First of all, this is the scale which is designed like the dial of a clock. Two pointers (standard device) indicate the liquid level in the tank. These pointers are driven by a transmitter which transmits a linear movement into a circular one. A wire is spooled around a drum in the indicator head, which is spring actuated. The other end is connected to the follower magnet, which is placed in the guide tube.
The guide tube is directly connected to the indicator head and completely sealed against the process. The wire hangs into the guide tube with the follower magnet at it’s end.
The float swims in the fluid to be measured. It is lead by the guide tube. In the float, there is a strong magnetic system, which builds up a strong magnetic link between the float and the follower magnet.

If now the fluid inside the tank rises or falls, the float will rise and fall, too. Due to the linked follower magnet in the guide tube, the drum in the indicator head gets turned by rolling up / down the wire. This rolling movement now gets transmitted by a gear box into the indication on the indication face of the indicator head.

In principle, there are two different series of Maglink Level Gauging Systems:

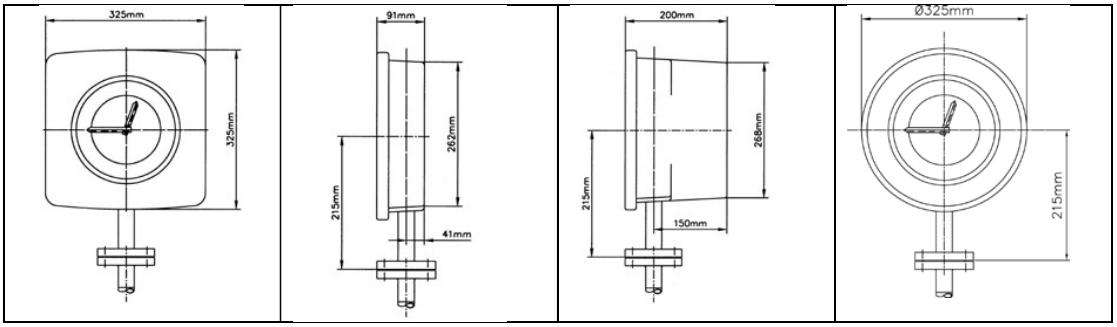
1.) **MAGLINK series 5300 (for non-Ex applications)**
2.) **MAGLINK series 5400 (for Ex-applications)**

Maglink 1.2. Advantages of the Maglink-Level-Gauging-System

- sealed system for pressure or vacuum service
- high accuracy (linear transmission)
- materials of contruction for corrosive services
- no calibration required
- remote electronic indication and/or alarm switches
- readability at eye level
- good readability by directly indicating scale Ø 250 mm
- double-pointer indication (standard)
- mechanical operation (explosion proof version available)
- insensitive to foam
- simple operation and maintenance
- interface measurement
- weatherproof housing
- direct mounting on top of the tank, **optional: indication on the side of the tank**
- open and sealed tanks
- underground tanks
- isolation between measured room and measurement system
- simple mechanical assembly

Maglink — 2. Maglink Components in Detail

Maglink — 2.1. Indication Head and Scale



Maglink Head (die cast aluminium) | *with flat housing (die cast aluminium)* | *with wide housing (die cast aluminium)* | *stainless steel housing*

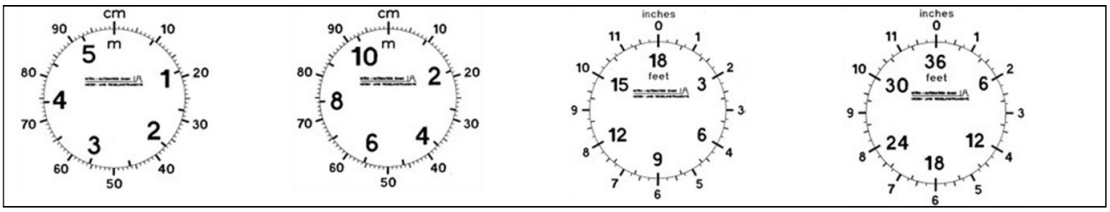
Basically, there are three different housings:

- ♦ flat cast housing : used only for visual indication
- ♦ wide cast housing : used for visual indication ***and*** optional level switches and/or integral transmitter for 4-20 mA output. In this case, the housing is equipped with and additional cover on its backside of a simpler mounting, installation and maintenance
- ♦ stainless steel housing : used only for visual indication

Technical data housing:

- ♦ materials : housing: cast aluminium (std); optional: stainless steel
  viewing glass, Ø 220 mm: glass (std), optional: Makrolon
- ♦ painting : PUR – polyester powder lacquer
  layer thickness: approx. 70 µm
  colour: black
- ♦ ambient temperature : -40°C (-40°F) through 66°C(150°F)
- ♦ protection class : IP 65 (NEMA4)

Technical data scale:



0-5,4 m | *0-10,8 m* | *0-18 ft* | *0-36 ft*

Fig. 03: standard scales

The scale of the Maglink-Level-Gauge-System has a diameter of 220 mm.
Two different kinds of scales can be chosen from:

Standard scale

- ♦ design : double pointer (red/black)
- ♦ scaling : meters (red)/centimeters (black) or feet (red)/inches (black)
- ♦ measuring range : 0-5,4 m; 0-10,8 m; 0-18 ft or 0-36 ft
- ♦ material : Aluminium, white primed

Special scale (optional)

- ♦ design : one pointer (black)
- ♦ scaling : Acc. to customer specifications (i.e. cm; mm; ft; inch; Liter; m^3)
- ♦ measuring range : Acc. to customer specifications
- ♦ material : Aluminium, white primed

Maglink 2.2. Guiding Tube

The guiding tube constists of the following parts:

weld on head mounting flange, 1“ 150 lbs

tank mounting flange, (standard DN50 PN16 or 2“ 150 lbs RF)
[other dimensions on request]

guiding tube

end stop or bottom support for measurement length A > 3000 mm

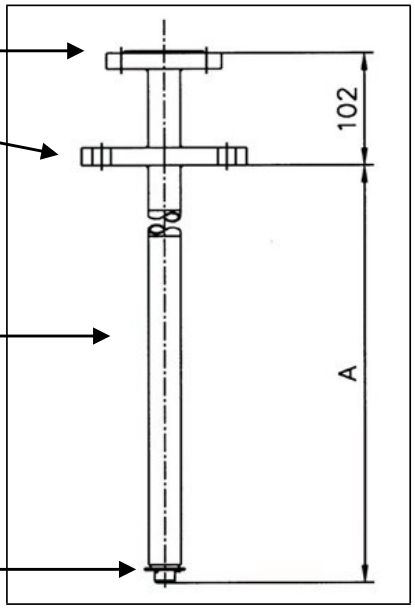


Fig. 04 Guiding tube

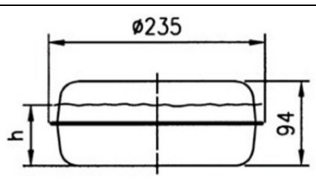
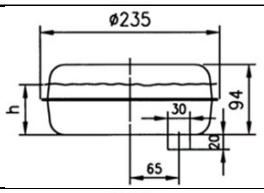
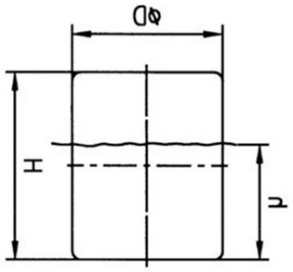
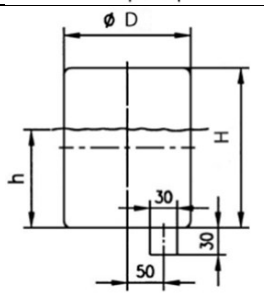
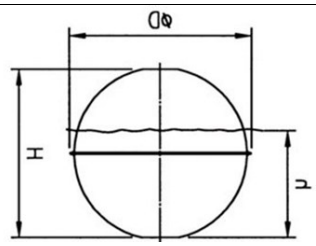
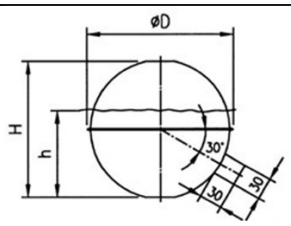
Technical data:

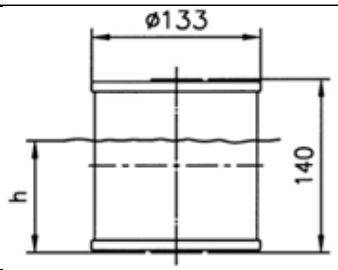
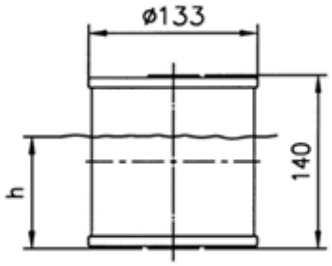
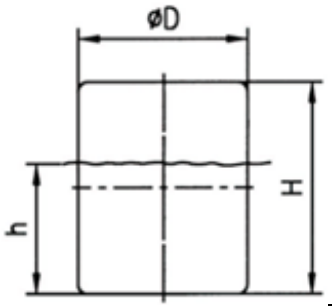
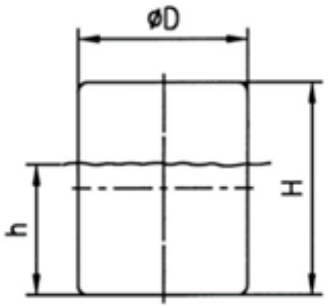
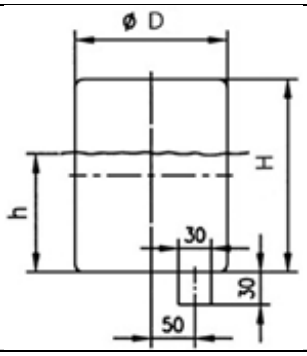
□materials	:	1.4571 = 316Ti (standard), PP, PVC, PVDF [further materials on request]	
□max. length	:	17000 mm (for length > 5800 mm: multipart design)	
□max. operation temperature	:	1.4571 (316Ti) (standard) PP, PVC, PVDF	0...250 °C (32…480 °F) 0…60 °C (32…140 °F)
□max. operation pressure	:	1.4571 (316Ti) (standard) PP, PVC, PVDF	Depends on selected float type 6 bar (102 psi g)

Maglink

2.3. Float Systems

Types of Floats:

Float	Data (1, 2, 3)	Standard version	Ex-version
Type A (Standard) (4)	min. 0,5 kg/dm^3 max. 3,5 bar (50 psi g) max. 250°C (480°F) mat.: 1.4571 (316Ti)		
Type B (4)	min. 0,7 kg/dm^3 max. 5 bar (150 psi g) max. 250°C (480°F) mat.: 1.4571 (316Ti) ØD = 140 mm H =178 mm		
Type C1 (4)	min. 0,75 kg/dm^3 max. 25 bar (350 psi g) max. 250°C (480°F) mat.: 1.4571 (316Ti) ØD = 190 mm H =184 mm		
Type C2 (4)	min. 0,58 kg/dm^3 max. 18 bar (250 psi g) max. 250°C (480°F) mat.: 1.4571 (316Ti) ØD = 229 mm H =206 mm		
Type C3 (4)	min. 0,58 kg/dm^3 max. 18 bar (250 psi g) max. 250°C (480°F) mat.: 1.4301 (304) ØD = 229 mm H =206 mm		

Float	Data *(1, 2, 3)*	Standard version	Ex-version
Type F1 *(4)*	min. 0,65 kg/dm^3 max. 7 bar (100 psi g) max. 60°C (140°F) mat.: Polypropylene (PP)		
Type F2 *(4)*	min. 0,80 kg/dm^3 max.7 bar (100 psi g) max. 60°C (140°F) mat.: Polyvinyl-chloride (PVC)		
Type G *(4)*	min. 0,60 kg/dm^3 max.3,2 bar (45 psi g) max. 250°C (480°F) mat.: Glass ØD = 150 mm H = 175 mm		
Type G *(4)*	min. 0,58 kg/dm^3 max.18 bar (250 psi g) max. 250°C (480°F) mat.: Titanium ØD = 94 mm H = 240 mm		

1) Except the glass float all other float types can be vented for high pressure applications
2) It should be avoided to use floats close to their specified minimal liquid density
3) Special materials and –dimensions upon request
4) Version for interface measurements requires a minimal difference in density of ***0,2 kg/dm³***
5) Version for interface measurements requires a minimal difference in density of ***0,4 kg/dm³***

FLOW OVERVIEW

Itabar-Flow-Sensor

Orifice Plate

IFN Flow Nozzle

Integral Orifice

ICM Cone Flow Meter

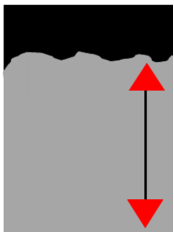
IWM Wedge Flow Meter

IVT Venturi Tube

THE EXP
LEVEL AN

Industrial Soluti

LEVEL | OVERVIEW



PERT IN
ND FLOW

ITA mag. Level Gauge

Maglink Level Indicator

ITA Bypass

ITA with Guided Wave Radar (GWR)

ons for the World

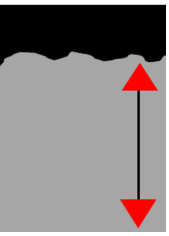
Reflex

ITA Transparent Level Gauge

Tubular

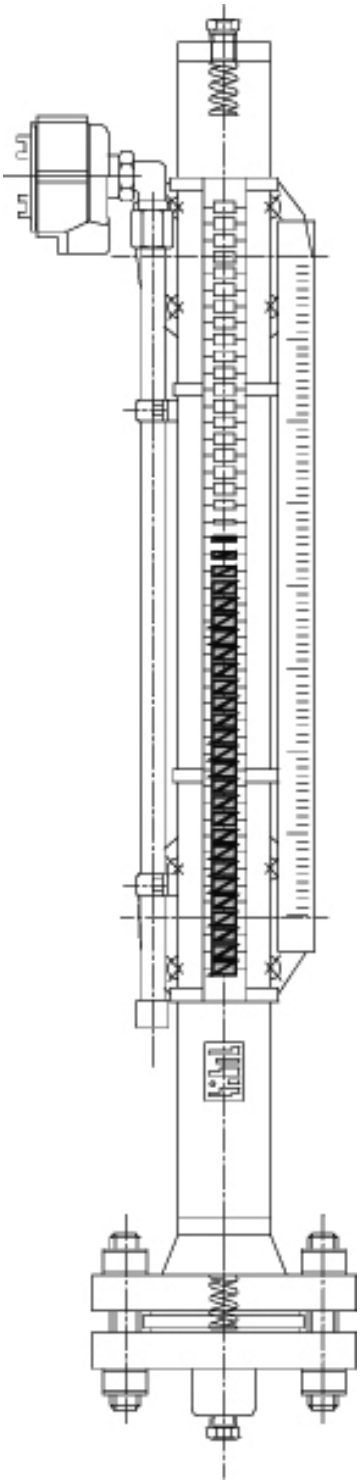
LEVEL

MAGNETICALLY CONTROLLED LEVEL GAUGE ITA



Magnetically controlled liquid level indicators type ITA are used for the following level measurement tasks:

- Indication of the liquid level for corrosive, toxic or flammable media with separation between measurement and display compartments.
- Magnetic transmission of the liquid level from the vessel to the gauge is continuous and resistant to vibration.
- Can be used to measure level both in atmospheric and pressurized vessels.
- Perfect readability of the display elements even at greater distance and after several years, since there is no clouding by product contamination resulting from exposure to ultraviolet light.
- Simple, unbreakable and maintenance-free design
- Great reliability even at high temperatures and pressures
- Alarm contacts can be attached at any point along the gauge.
- Measuring scale of the display can be set at customer's request on volume or height.
- Floats without gas pre-load as of a minimum density of 0,35 kg/dm³
- Maximum process pressure for sealed floats: 320 bar; at higher pressures the float is provided with pressure relief (not to be used with condensing media)
- Separation of the measurement from the display compartment eliminates the hazards associated with glass tube breakage.
- The float principle minimizes the influences of changes in density on measurement accuracy.
- Display of fill level
- Monitoring the extreme fill level by alarm contacts (also as Ex-Version)
- Transfer of the fill level using transmitters (4…20 mA Hart / Profibus PA) to electrical indicator units (also as Ex-Version)
- Interface level measurement.



LEVEL

MAGNETICALLY CONTROLLED LEVEL GAUGE ITA

Overview standard designs:

Liquid level indicators for low and medium pressures, Series: ITA-3/6/7

- Wetted components made of corrosion-resistant stainless steel 316L as a standard.
- Pressure ranges: PN16, PN40, PN64/ANSI 150#, 300#, 400#, 600#)
- DIN or ANSI-connection flanges
- Float design exactly adapted to the operation conditions
- Versions up to 12 m length (two sections)
- Special materials for special application parameters:
  Titanium, Hastelloy C4, Inconel 625, TP317 LN, Monel
  PTFE-lining (only PN16)
- Accessories: Drain- and vent flanges, valves, reducers etc..
- types ITA-3.0/6.0/7.0 with CS flanges

Liquid level indicators made of plastics
Series ITA-8

- It is hardly impossible to think of pipe and vessel engineering without the use of modern plastics.
- In utility and waste water applications and when handling corrosive media, liquid level gauges made of plastics replace costly solutions like metal tube linings or ceramic or glass tubes
- materials: PVC (Polyvinylchloride), PP (Polypropylene), PVDF (Polyvinyldenefluorid)
- Connection flange DN15/PN6 to DN32PN6

Liquid level indicators – Power Plant Technology
Series ITA-10/11/12/13

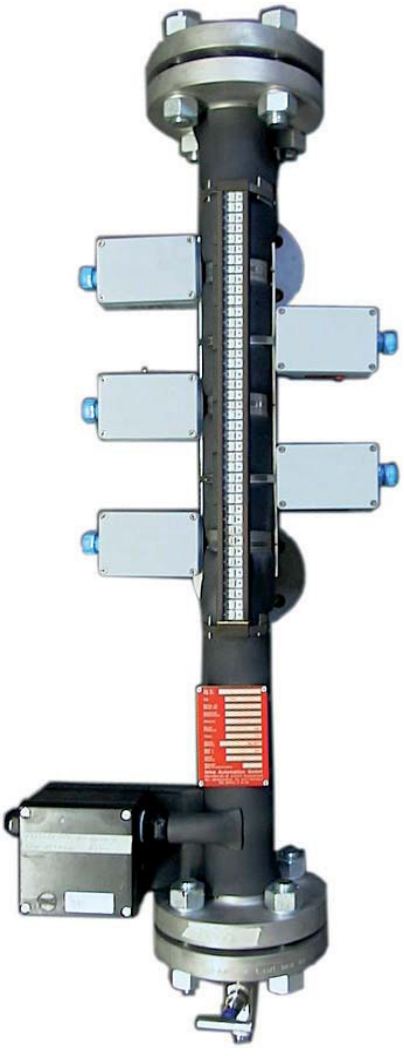
- Applications in the chemical, industrial processes and offshore industry
- sealed floats up to 320 bar (4641 psi)
- Minimum operating density 0,42 kg/dm³
- Special materials for special conditions: Titanium, Hastelloy C4, Inconel 625, 1.4539
- pressure ranges: PN100, PN160, PN250, PN320
- DIN- or ANSI-connection flanges
- Accessories: Drain- and vent-flanges, valves, reducers etc..

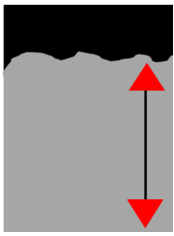
Indication rails:

- Aluminium and stainless steel indication rails for media up to 752°F
- Makrolon indication rails for media up to 248°F

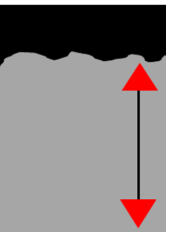
Switches and alarm contacts:

- Attached with a pipe clamp for positioning at any desired height
- Connection via 3-wire cable or terminals in the housing
- SPDP contact can be wired for either NC or NO function
- Ex-Version (EEx i / EEx d)
- various types; changeover contact, proximity switch
- up to +752°C fluid temperature





LEVEL — MAGNETICALLY CONTROLLED LEVEL GAUGE ITA



Special designs:

- Two-part-design, on client's request or at measuring length more than 6000 mm
- Steam jacket with threaded or flanged connectors to heat the indicator with steam, e.g. when handling viscous media
- Liquid level indicator with Armaflex insulation. Reliable insulation in a range from -328 to +221°F, can be used in refrigeration plants, for ammonia.
- PTFE-lining for use with corrosive media
- Bureau Veritas, German Lloyd, DNV, Lloyds Register
- Overfill monitor for containers e.g. used to store flammable and non-flammable, water
  polluting liquids
- ITA-Cryo-design for refrigerants
- Special versions to fulfil requirements of client's operations.

Supplementary equipment:

- Heating tape as frost protection on outdoor applications
- Vent and drain valves, flanged or threated
- Scales with graduations on client's request
- Ceramic tape

Approvals / Certificates:

- Material certificates 3.1 acc. DIN EN 10204
- General construction surveillance approval acc. Article 19 Water Resources Management Act (WHG) and Article 12 or the Flammable Liquids Code (VbF), Approved for Zone 0
- Approved water level controller VdTÜV / WR91-352
- German Lloyd
- X-ray test acc. DIN 54111 T1
- Dye penetrant test acc. DIN 54152
- Approvals acc. NACE, TRD, design pressure test by German TÜV
- Pressure Equipment Directive PED
- IBR-certificate available
- Ex-version available

Guided Wave Radar (GWR)

Intra-Automation combines the principle of conventional magnet flap indicator type ITA with the guided wave radar level transmitter for redundant measurement.

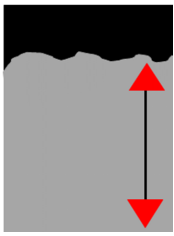
Features:

- Measuring lengths up to 18 m (59,06 ft)
- Pressure ratings up to 320 bar (4641 psi)
- Very high accuracy (mm)
- Installation independent from heater coils or agitators in the tank
- Insensitive against process conditions such as vibrations or extreme steam generation
- To be used in critical applications
- Redundant measuring of the actual level
- Precise visual measurement with highly exact sensor
- Precise visual measurement with highly exact sensor
- Digital on-side indication available
- Ex-versions (EEx d, EEx ia) available

LEVEL

MAGLINK LIQUID LEVEL SYSTEM FOR TANKS

The „MAGLINK“ liquid level measurement system is designed for use with pressurized tanks or those open to the atmosphere, particularly in the chemical industry, where especially difficult operating conditions could prevail in regard to corrosion, temperature and pressure. All parts which are in contact with the medium being measured are made of rust- and acid-resistant steel or special materials, which allows these devices to be used in various industries like the chemical, foods, petroleum processing and marine industries (with PTB National Physical Testing Laboratories at Braunschweig and German Lloyd underwriter's certification), to include acids, liquefied petroleum gas, etc. The magnetic link between the float and the interior magnet is so stable that even rapid changes of the fluid level do not influence the accuracy of the level measurement.



Design Features:

- pressure- and vacuum-tight system
- high accuracy (linear transmission)
- corrosion-resistant materials
- no calibration needed
- electr. remote monitoring available
- can be read on eye level
- easy legibility with the 10“ diam. Direct display scale
- dual-pointer-system (standard)
- mechanical operation (Ex-proof design/ATEX optional)
- undisturbed by foam generation
- simple to use and maintain
- interface level measurement
- mounted on top of tank; optional: display on side of the tank

Materials:

Guide tube and mounting flange:
- rust- and acid-resistant steel (standard: 316L alloy)
- PVDF, PP, PVC

Float:
- rust- and acid-resistant steel (standard: 316L alloy)
- Polypropylene PP
- PVC
- PVDF
- Monel
- Glass
- Halar-coated stainless steel (316L)

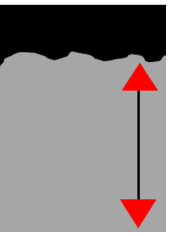
Housing:
- Die cast painted aluminium (standard)
- 316L steel alloy

Scale window:
- Glass
- Makrolon

Mounting flange:
- 2“ 150# standard RF flange as per ANSI B 16.5 or DIN 2627 DN50/PN40 or on client's request

LEVEL — LIQUID LEVEL GAUGES

In case that the liquid level has to be monitored directly (e.g. due to directives by law), Liquid Level Gauges are to be applied.



Tubular Level Gauge
Series ITA-*-GG

- Used for observing the flouid level at low temperature and low pressure

Reflex Level Gauge
Series ITA-*-RG

- used for observing the level of various liquids by using the reflection of light.
- for high pressure & high temperature
- applicable for steam measurements

Transparent Level Gauge
Series ITA-*-TG

- used for observing the fluid level
- for high pressure & high temperature
- applicable for steam measurements

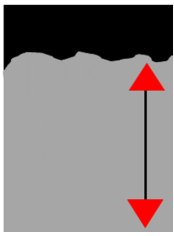
Option: Illuminator for Liquid Level Gauges

- used for observing the fluid level in a dim place or at night
- ingression protection grade: IP66
- Explosion proof: KOSHA I Exd II B + H2 T5 & CENELEC / EExd II B + H2 T4

The different indicators are available in CS, stainless steel and stainless steel alloys.
Other materials on request.

LEVEL — BYPASS CHAMBERS FOR LEVEL TRANSMITTERS

Series ITA-*-BG



Intra-Automation produces measuring chambers for installation on the tank side, which act as communicating pipes with the level in the tank. This means that the filling level in the chamber is always exactly the same as the filling level in the tank. These Bypass-Chambers provide the possibility to be equipped with a variety of level measuring systems resp. level switches. For example:

Level Transmitter working acc. The Buoyancy Principle

Features:

- Level, Interface and Density measurement
- Designed for extreme process and environmental conditions
- No moving parts – maintenance-free
- One Transmitter for level, interface and density
- 2 N measuring span
- Materials for wetted parts:
  C-Stahl, 16Mo3, 1.4404, Duplex, Inconel 825, Hastelloy C
- ATEX and FM approval for EEx d

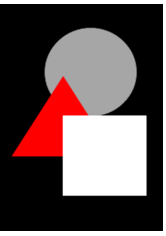
Description:

The smart transmitter is designed to measure level, interface and density. The measurement is based on the Archimedes buoyancy principle.

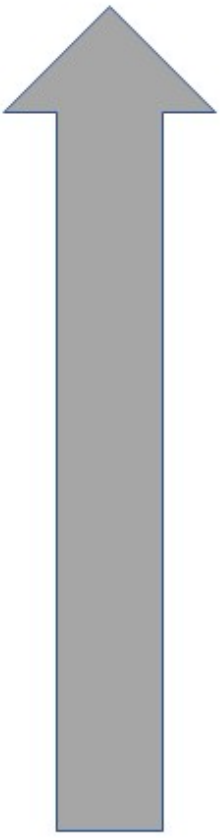
The level transmitter family

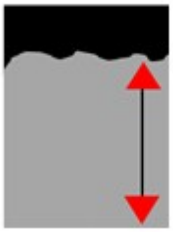
	244LD	244LVP	167LP
Connection	Digital, 2-wire	Digital, 2-wire	Pneumatic
Mounting	Sandwich mounted	Flange mounted	Sandwich mounted
Output signal	4…20 mA / HART / PB-PA / FF	4…20 mA / HART	pneumatic 0,2…1 bar
FDT-DRT with adv. Features	Yes	Yes	
Meas. length	5 cm… 15 m	5 cm…3 m	35 cm…3 m
Density	100…2000 kg/m³	100…2000 kg/m³	100…1600 kg/m³
Temperature	-196…+500°C	-50…+150°C	-196…+400°C
Pressure	PN16…500	PN40	PN16…250
Flange size	DN80 / DN100 ANSI 3”, 4”	DN50 / DN80 ANSI 2”, 3”	DN80 / DN100 ANSI 3”, 4”
SIL 2 cert	Yes	Yes	Yes
Amb.temp.	-40…+85°C	-40…+85°C	-40…+90°C

COMPONENTS



FLOW





LEVEL

SYSTEM COMPONENTS

COMPONENTS

ELECTRONIC TRANSMITTERS TYPE INT

The INT P series measurement transducers are used to measure pressure, absolute pressure or differential pressure.

The output signal, from 4 to 20 mA / Hart, can be transmitted over great distances to controllers, recording devices, display, etc.

These measurement transducers are fitted with water and dust-resistant housings for industrial use.

When intended for use in potentially hazardous atmospheres, the measurement transducers are supplied in a flame-proof-version enclosure (EEx d) or in an intrinsically safe version (EEx ia), as defined in ATEX standards.

A broad selection of materials is available (stainless steel, Hastelloy C, tantalum, Monel), selected to suit the particular operating environment. The main areas of use are in chemicals, petrochemicals, power generation, water purification, the food industry, papermaking and smelting technology.

You can install INT P series wherever you need it and calibrate it from a remote point. For our smart transmitter naturally uses the HART protocol for communications with PCs, handheld communicators and all other process control systems with HART capability.

The communications capability of the HART-“clan” also means that a laptop or PC can be used both for remote calibration and feedback documentation. In other words, the start-of-scale and full-scale values can be set without having to use a reference pressure. Damping and output characteristics (linear/ square root proportion) can be modified in the same way.

The Windows software offers a user interface and numerous help functions.

Not to forget second-to-none reliability and precision resulting mainly from the field-proven measuring principle employed. The use of special materials, such as Hastelloy and tantalum, gives the transmitters a very wide range of application and a long-life expectancy. The measuring error is less than 0,1 % and variations in the ambient temperature only affect measurements by a mere 0,005 %per 10 K. The INT P series therefore provides complete accuracy throughout the year.

And not only for one year! Our new transmitters lose only 0,1 % of their functionality a year, which makes them still 99 % functional after ten years and more. So you hardly ever have to check up on them. If long-term stability is what you’re looking for, our INT P series is the transmitter you need.

Series Digiflow

The Flow Computer & Indicator Series DigiFlow are designed to visualise, control as well as to calculate different physical units. The backlit two rows alphanumeric display shows the instantaneous readings of flow or totals. The four-key-touchpad is used to program and configure the unit.
The DigiFlow is powered 115/230 V AC 50/60 Hz. Optionally voltages between 24 and 28 V AC / DC.
The DigiFlow characterised also by features like easy programming, user menus in three languages and a long life span.

There are three different DigiFlow types available.

Digiflow 505
Microprocessor controlled Flow Indicator-Integrator

Features:

- Full scalable input signals 4-20 mA analogue or frequency.
- 2 inputs, either two independent measurements, dual range, median of two sensors or two different channels.
- Integration and indication of totals when time depended signals
- Simple programming
- User menus in three languages
- Control of a sensor-purge-unit
- RS232 Data logger output

Optionally there are up to three scalable analogue outputs 4-20 mA available.
Furthermore, an optionally equipment to control a sensor purge unit can be ordered.
The DigiFlow 505 provides an adjustable voltage between 17V and 19V DC for powering sensors. Maximum current is 100 mA.

COMPONENTS

FLOW COMPUTERS AND UNIVERSAL INDICATORS

Series Digiflow

Digiflow 515
Microprocessor Controlled Gas and Steam Flow Computer /Energy Flow Computer (Consumption and Enthalpy)

Features:

- Indication of flow rate and total of volume, mass and energy
- Temperature and Pressure compensation
- Input signals 4-20 mA analogue or frequency for flow input
- Dual ranged d.p. transmitter input
- Simple programming
- User menus in three languages
- Control of a sensor-purge-unit
- RS232 Data logger output

Digiflow 516
Microprocessor Controlled Heat and Energy Flow Computer (Consumption and specific heat capacity)

Features:

- Indication of flow rate, heat and total of volume, heat
- Can be used for energy calculation
- Temperature and Pressure compensation
- Input signals 4-20 mA analogue or frequency for flow input
- Dual ranged d.p. transmitter input
- Simple programming
- User menus in three languages
- Control of a sensor-purge-unit
- RS232 Data logger output
- Includes tables to calculate the specific gravity and the specific heat capacity of the flowing medium based on the first main clause of the thermodynamic.

CONTACT

DO YOU NEED SUPPORT?

Are you searching for solutions regarding level and flow measurement?

Do you search for special accessories for your metering point?

Do you need support regarding calculation or design of your special application?

Please contact us! Intra-Automation is not just manufacturer and supplier of hardware, we are also

THE EXPERT IN LEVEL AND FLOW

and are willing to share our knowledge on request.

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Please do not wait, contact us today!

Please follow us on

INTRA-AUTOMATION

MESS- UND REGELINSTRUMENTE / MEASUREMENT AND CONTROL

Since it's founding in 1977, Intra-Automation GmbH focused its corporate activities on measurement and control systems for flow, level, pressure, absolute pressure and differential pressure. Our mag. level gauges ITA and our flow sensors Itabar were the locomotives for the successful development of Intra-Automation GmbH.

Over the years, our product range has been extended by devices for flow correction and ultrasonic measurement as well as auxiliary equipment for flow and level. In a further step, the core competences "differential pressure flow measurement" and "bypass level measurement" have been strengthened by broadening the product line.

Today, Intra-products enjoy a good reputation in more than 72 countries and many industries all around the world, including chemical and pharmaceutical industry, the oil an gas sector, shipbuilding, machinery and plant construction, the food and beverage industry, water treatment as well as environmental engineering.

Our product range includes instruments for level measurement and control for temperatures up to 400°C and a pressure range up to PN320 as well as differential pressure measuring instruments up to 1200°C and up to PN400.

A continuous quality management according to DIN EN ISO 9001 and constant development guarantee recognized quality and reliability as well as reproducible parameters for all products.

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