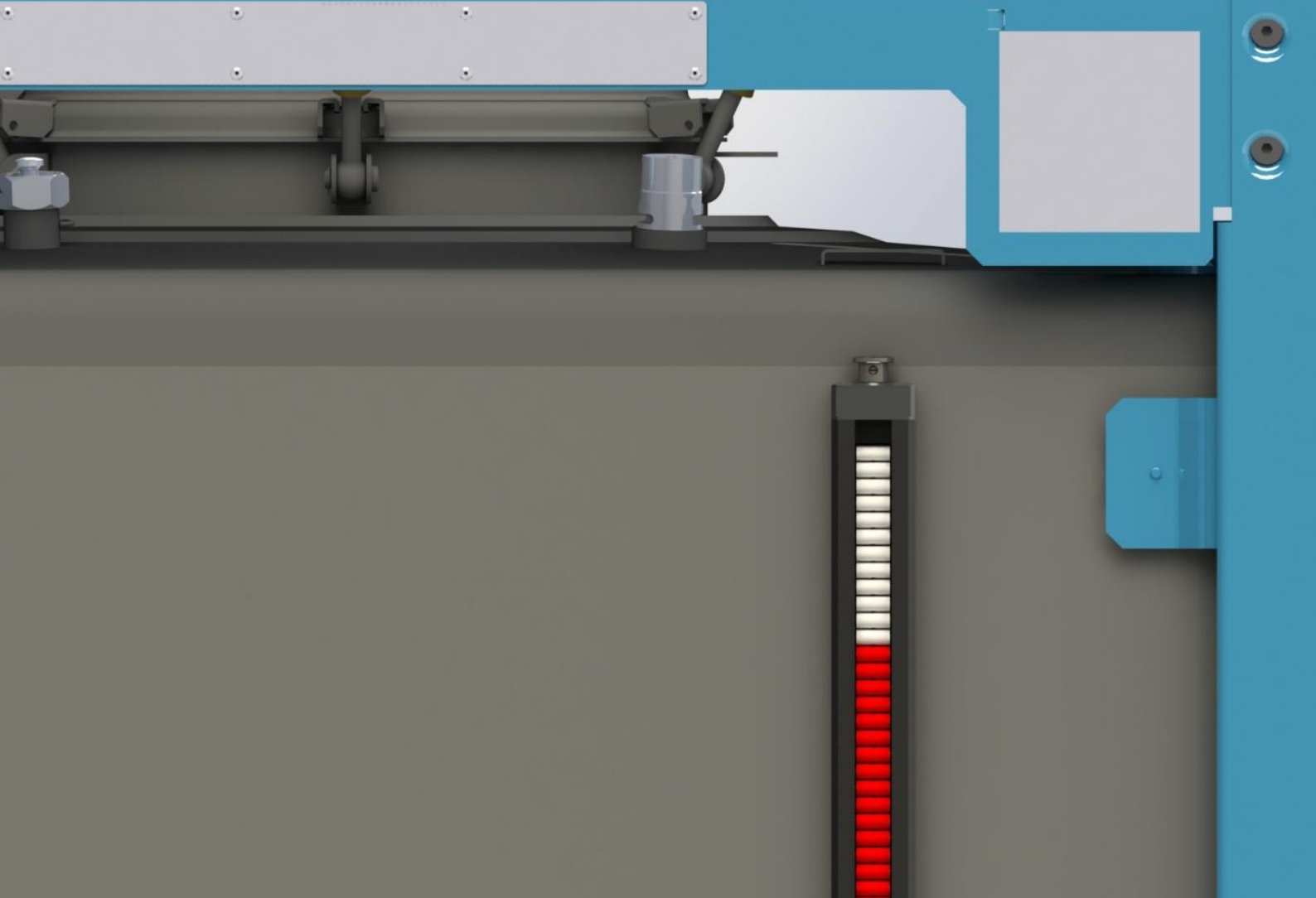




L21/C – Magnetic Level Indicator for containers

Magnetic level meter for continuous level measurement of liquids

- No risk of leaks
- Robust and versatile design
- Reasonable price
- No need of power supply
- Optional electrical outputs
- Easy assembly
- Clear level indication
- Sanitary of tank unimpaired
- Indication independent of media visibility
- Level meter without clogging and maintenance

HART
COMMUNICATION PROTOCOL



Level indicator material

Stainless steel 1.4301 / 1.4404 / 1.4571

Application

Chemicals/petrochemicals, waste disposal/recycling, food industry, paints/lacquers, plant construction

Connection options

Welded in, screwed in, magnetic holders for existing tanks (indication can be installed additionally).

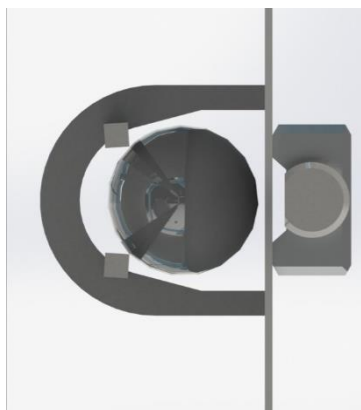
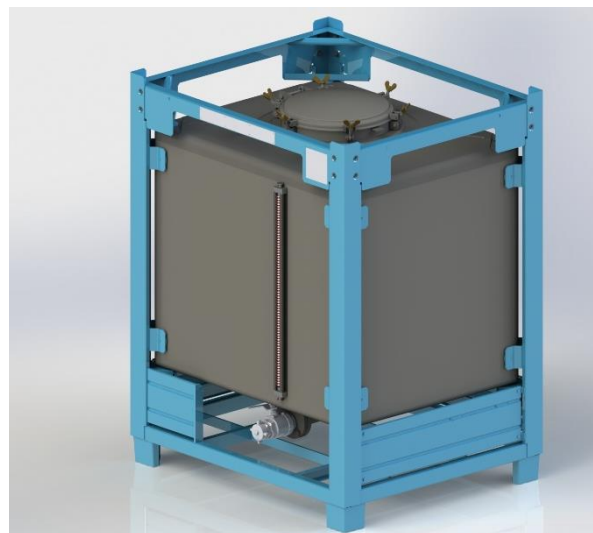
Local display

Roller indicator without scale

Roller indicator in selected units (m, m³, %...)

Glass tube with a magnet without scale

Glass tube with a magnet with scale in selected units (m, m³, %...)



Principle of operation

There is a cage with a float inside the tank. Float has a built-in permanent magnetic system and follows the level of liquid in the observed tank. Local indicator as well as additional sensors are magnetically coupled to the float. As the float changes its position, magnetic rollers follow it changing their orientation and thus the colour (from white to red) indication current level directly. If requested, device can be equipped with stainless steel scale in chosen units of length, volume, percentage etc.

Medium	Liquids and liquefied gases
Density	From 0,4 kg/dm ³
Measuring range (one segment)	
Stainless steel/plastic	
Standard	0.3 to 6.0 m
On request	0.3 to 9.0 m
Accuracy	
Repeatability	± 5 mm
The maximum level change rate	± 5 mm
	1 m/s
Maximum pressure	
Standard stainless steel	4 MPa, on request 40 MPa
Fluid temperature	
Standard stainless steel	-30 to +200°C
Optional stainless steel	-196 to +525°C
Connection	Flanged EN 1092-1 DN 15 to DN 50, PN 6 to PN 400, ASME B16.5, DIN, GOST threaded connections ½" - ¾" NPT, G ½" - ¾" smooth pipe for welding (others on request)
Material (parts in contact with fluid)	DIN 1.4541 stainless steel (DIN 1.4571, 1.4301, 1.4404), Hastelloy, PVC, PP, PVDF, other on request
Mounting position	Vertical (side, bottom, top)
Local Display	Roller indicator without scale Roller indicator with scale in selected units (m, m ³ , %...) Glass tube with a magnet without scale Glass tube with a magnet with scale in selected units (m, m ³ , %...)
Switches	I - NAMUR may be supplemented by separating contacts on DIN rail SP8 - pneumatic output SPJ - bistable switch - 3-wire (NO, NC selectable) SPM - switch with micro switch
Transmitters	
SP4 sensor	Resistive position sensor with reed contacts Ambient temperature -40 to +130°C
Other parameters, design and equipment can be provided on request.	