



INTELLIGENT SUBMERSIBLE LEVEL TRANSMITTERS

Remote Rangeable

HYDROBAR 'I'



- ▶ Free Programmable by PC or HHT
- ▶ Output 4-20 mA and HART® Protocol
- ▶ Accuracy 0.1%
- ▶ Strong Diaphragms
- ▶ Perfect Long Term Stability (<0.1%/year)
- ▶ Temperature compensated
- ▶ Zero/Span adjustable
- ▶ Intrinsically Safe
ATEX II 1G
EEx ia IIC T4



The Hydrobar 'I' is an 'Intelligent', free adjustable, hydrostatic level transmitter with cable (IP68) for level measurement in water & wastewater, pulp, slurry, chemicals, etc.

Zero and span are adjustable by HART® Protocol and PC or HHT.

The Hydrobar 'I' has active temperature compensation and a strong (laserwelded) diaphragm which results in a **perfect long term stability**.



*Programmable
by PC or HHT*

HART® is a registered trademark of the HART Communication Foundation

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Specifications

Measuring ranges	: 0,04 bar to 5 bar
Output signal	: 4-20 mA / 2-wire + HART® Protocol
Adjustment	: Zero and span by PC or HHT
Accuracy	: 0.1% of adjusted span
Power supply	: 12 to 40 Vdc
External load (max.)	: 550 Ohm/24 Vdc to 1400 Ohm/40 Vdc
Protection grade	: IP68
Process temperature	: -10 °C to +70 °C
Temperature sensitivity	: +/- 0.015%/K
Wetted parts	: AISI 316L (standard)
Material cable	: Polyethylene (PE) (option: Hytrel or PTFE)

Specifications can change without notice



Strong flush diaphragm

Ordering Information

ORDERINGCODE		Hydrobar -I- cable (length) -				
Ranges (bar)	Maximum overpressure (bar)	Adjustable span range (bar) min. - max.	↑	↑	↑	↑
0 - 0,04...0,4	6,4	0 - 0,04 / 0 - 0,4	1			
0 - 0,12...1,2	10,5	0 - 0,12 / 0 - 1,2	2			
0 - 1 ... 5	30	0 - 1 / 0 - 5	3			
- Mounting connection: Flange DIN or ANSI (specify size)				F		
- Other top mounting connections: Example G2" thread (specify)				X		
OPTIONS						
- Intrinsically safe: ATEX II 1 G EEx ia IIC T4					Ex	
- SPECIALS: Other wetted parts or other cable material (specify) (Example: Hasteloy C diaphragm or Hytrel cable)						G

* Always specify cable length at orderingcode

Applications

The Hydrobar "I" can be used for levelmeasurement in all kind of fluids, like water & waste water, pulp, slurry, chemicals, etc.
Typical applications are Levelmeasurement in:

- Basins
- Deep wells
- Tanks/vessels
- Underground tanks
- Ballast tanks (Shipbuilding)

General Information

- **Laser welded diaphragms**
All Hydrobar leveltransmitters have strong, flush mounted, diaphragms which are laser welded.
- **Active Temperature compensation**
All Hydrobar transmitters are fully Temperature compensated.
- **EMC/CE**
Klay Instruments manufactures all transmitters according to the European CE rules.

Approvals

The following certificates are available:

- HART® Protocol
- ATEX II 1G EEx ia IIC T4
- Lloyds Register (Pending)



Accessories

- Cable clamp
- Junction box (IP68) including venting
- Extra cable length

