



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 flush Diaphragms
- ▶ Perfect Long Term Stability (<0.1%/ 2 years)
- ▶ Temperature compensated
- ▶ Zero/Span adjustable
- ▶ Intrinsically Safe
IECEX and ATEX II 1G
Ex ia IIC T4 Ga



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) flush diaphragm which results in a **perfect long term stability**.



HART® is a registered trademark of the HART Communication Foundation

Programmable by PC or HHT

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Specifications

Measuring ranges	: 16" to 4000" WC
Output signal	: 4-20 mA / 2-wire + HART® Protocol
Adjustment	: Zero and span by HART
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	: NEMA 6P (IP68)
Process temperature	: 14 to 160°F
Temperature sensitivity	: +/- 0.01%/K
Wetted parts	: AISI 316L (standard)
Material cable	: Polyethylene (PE) (option: Hytrel or PTFE)

Specifications can change without notice



HART
COMMUNICATION PROTOCOL

Strong flush diaphragm

Ordering codes

ORDERINGCODE:		Hydrobar -I- cable (Length)-					
Ranges inch WC	Maximum overpressure (psi)	Adjustable span range (inch WC) min. - max.	↑	↑	↑	↑	
0 - 16 ...160"WC	100	0 - 16 ...160"WC	1				
0 - 47 ...470"WC	150	0 - 47 ...470"WC	2				
0 - 400 ...4000"WC	400	0 - 400 ...4000"WC	3				
- Mounting connection: Flange DIN or ANSI (specify size)				F			
- Other top mounting connections: i.e. thread 2" NPTm				X			
OPTIONS:							
- Intrinsically safe: IECEx and ATEX II 1 G Ex ia IIC T4 Ga				Ex			
- Hasteloy C diaphragm							G7
- Hytrel cable (For fuels, oil, etc)							G10
- Gold plated diaphragm							G16
- Process connection 1/2" NPT M. (By adapter)							G35
- Titanium sensor wetted parts							G191

*Always specify cable length at orderingcode

Applications

The Hydrobar "I" can be used for level and pressure measurement in all kind of fluids, like water & waste water, pulp, slurry, chemicals, etc.

Typical applications are Level measurement in:

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

Also available with threaded connections (1/2", 1" or 1 1/2" NPTm) for pressure measurement.

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.
- **Diaphragm protection**
All Hydrobar-I transmitters will be delivered with a diaphragm protection cap as standard.

Approvals

The following certificates are available:

- HART® Protocol
- IECEx and ATEX II 1G Ex ia IIC T4 Ga
- ABS, DNV, BV Marine Type Approvals

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Accessories



Cable clamp
Art. no. 20636



Junction Box
FMD(IP67)
Art. no. 20171

