

**Electronic level transmitters
HYDROBAR
Series 2000/8000
with flush, extended diaphragm**



- Variable area flowmeters
- Vortex flowmeters
- Flow controllers
- Electromagnetic flowmeters
- Ultrasonic flowmeters
- Mass flowmeters
- Level measuring instruments
- Communications technology
- Engineering systems & solutions
- Switches, counters, displays and recorders
- Heat metering
- Pressure and temperature**



Description

The **“Hydrobar”** series consist of electronic level transmitters with a cable or SS tube extension, to measure level in concrete bunkers, waterworks, deep wells, underground tanks, etc. Several types are available.

All **“Hydrobar”** transmitters are equipped with a strong flush mounted diaphragm and a diaphragm protection cap. The output is 4 ... 20 mA/2-wire.

Zero and span are internally adjustable in wide ranges (except for type Hydrobar-cable-FR which has a fixed range).

The **“Hydrobar”** transmitters can withstand high overpressures and have a excellent long term stability. The diameter of the SS tube extension is 38 mm, with a max. length of 4 metres.

All versions enjoy CENELEC approval for intrinsically safe applications (option).

Electronic level transmitters HYDROBAR Series 8000 and HYDROBAR “S” 2000 with flush, extended diaphragm

- All stainless transmitters
- Cable or tube extension
- Strong diaphragms
- Output 4 ... 20 mA
- Zero/span adjustable
- Local indicator available
- Intrinsically safe EEx ia IIC T4

HYDROBAR 8000



Accuracy 0.2 %

HYDROBAR «S» 2000



Accuracy 0.1 %

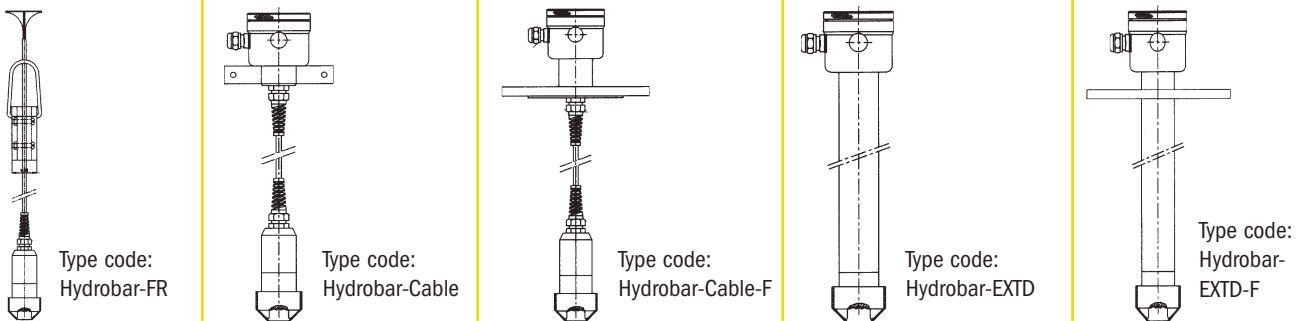
Specifications HYDROBAR 8000

Measuring ranges : 0.1 bar ... 4 bar
 Output signal : 4 ... 20 mA, 2-wire
 Adjustment : Zero and span internally (except FR)
 Accuracy : +/- 0.2% of adjusted span
 Power supply : 13 ... 40 VDC (Exi: 17 ... 28 VDC)
 Electrical connection : PG9 or 1/2" NPT
 External load (max.) : 550 Ohms / 24 V ... 1250 Ohms / 40 VDC
 Protection category : IP 68 (cable/SS tube)
 IP 66 (electr. housing)
 Process temperature : 0°C ... +65°C
 Temperature sensitivity : +/- 0.015 % / K
 Wetted parts : AISI 316 (standard)
 Material cable : Polyethylene (option: PTFE/Hytrel)

Specifications HYDROBAR «S» 2000

Measuring ranges : 0.04 bar ... 0 - 4 bar
 Output signal : 4 ... 20 mA / 2-wire
 HART® protocol (option)
 Adjustment : by 3 pushbuttons or HHT
 Accuracy : 0.1%
 Power supply : 12 ... 40 VDC
 External load (max.) : 600 Ohms / 24 V ... 1400 Ohms / 40 VDC
 Protection category : IP 67
 Process temperature : -10° .. +70°C
 Temperature sensitivity : +/- 0.015% / K
 Wetted parts : AISI 316 (standard)
 Material cable : Polyethylene (option: PTFE/Hytrel)

Version 8000 and 2000



(Only 8000)

General information

Laser welded diaphragm: All Hydrobar level transmitters consist of a strong, flush mounted diaphragm, which are laser welded.

Temperature compensated seals: All Hydrobar transmitters are fully temperature compensated.

EMC/CE: All transmitters are manufactured according to the new EMC/CE rules.

Accessoires

- Cable clamp for Hydrobar-cable
- Wall mounting bracket for SS tube extension
- Extra cable length (standard 3 m, max 100 m)
- Extra SS tube length (standard 2 m, max 4 m)
- Other cable material (PVC or PTFE) (specify)
- Other diaphragm materials (specify)

Ordering Code Series 8000

Order code cable extension:*		Hydrobar-cable (length) -							
Order code S extension:*		Hydrobar-EXTD (length) -							
measuring range bar	overpressure max. bar	adjustable span range bar		↑	↑	↑	↑	↑	
0 - 0.1 ... 0.4	6.4	0 - 0.1 ... 0 - 0.4	B						
0 - 0.4 ... 0.7	6.4	0 - 0.4 ... 0 - 0.7	C						
0 - 0.7 ... 1.5	10.5	0 - 0.7 ... 0 - 1.5	D						
0 - 1 ... 4	16	0 - 1 ... 0 - 4	E						
Fixed range: Specify calibrated range (only Hydrobar-cable)			FR						
Mounting connection: Flange DIN or ANSI (specify size)				F					
Special mounting connections: Example 1 1/2" BSP (specify)				X					
Digital local indicator: (3 1/2 digit, programmable)					I				
Intrinsically safe: ATEX II 1 G EEx ia IIC T4						Ex			
"Specials": Specify, other wetted parts or other cable material								G	

* Always specify cable or SS extensions length at order code

Ordering Code Series 2000

Order code cable extension:		Hydrobar-cable (length) -							
Order code S extension:		Hydrobar-EXTD (length) -							
measuring range bar	overpressure max. bar	adjustable span range bar	↑	↑	↑	↑	↑	↑	
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 ... 4	30	0 - 1 ... 0 - 4	3						
Mounting connection: Flange DIN or ANSI (specify size)				F					
Special mounting connections: Example 1 1/2" BSP (specify)				X					
OPTIONS									
Digital local indicator: (3 1/2 digit, programmable)				I					
Intrinsically safe: ATEX II 1 G EEx ia IIC T4				Ex					
HART® Protocol						H			
PROFIBUS-PA						P			
"Specials": Specify, other wetted parts or other cable material								G	